



LCD TV

LE26R53BD
LE32R53BD


- AFTER SALES SERVICE

- Do not hesitate to contact your retailer or service agent if a change in the performance of your product indicates that a faulty condition may be present.



Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

 This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Owner's Instructions

Before operating the unit,
please read this manual thoroughly,
and retain it for future reference.

ON-SCREEN MENUS
PC DISPLAY
PICTURE IN PICTURE (PIP)
TELETEXT

This device is a Class B digital apparatus.

Register your product at
www.samsung.com/global/register

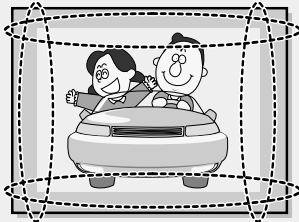
Precautions When Displaying a Still Image

A still image may cause permanent damage to the TV screen.

- Digital Ready TV: When you select the regular screen (4:3) mode to watch an SD-grade digital broadcast (and the Set-Top Box output is 480p).



- Digital Ready TV: When you select the wide screen (16:9) mode to watch an SD-grade digital broadcast (and the Set-Top Box output is 1080i).

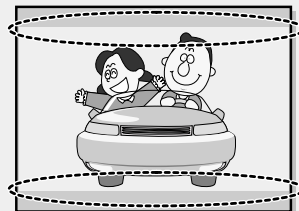


Although digital broadcasting must be in the wide screen (16:9) HD format, broadcasters sometimes show programs made originally in the regular screen format (4:3) by converting the signals into digital form, in which case the left and right side edges of the screen are cropped.

Note : If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amount of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience temporary or permanent image burn.

- Digital Ready TV: When the TV receives HD-grade signals (and the Set-Top Box output is 1080i).



When you watch a digital HD-grade broadcast on a regular (4:3) TV with the screen size "16:9" or "Panorama" selected, you will be able to watch the program but the top and bottom edges of the screen will be cropped.

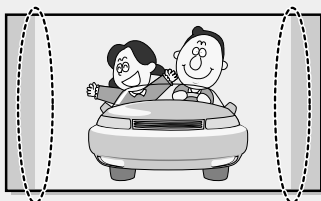
Note : If the borders at the top, bottom and the center of the screen remain fixed for an extended period of time, the amount of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience temporary or permanent image burn.

- Integrated Digital TV (Wide-screen): When the TV receives SD-grade (regular) broadcasting signals (receives 480p regular signals).

- Digital Ready TV (wide-screen): digital TV: When the TV receives SD-grade (regular) broadcasting signals (with a Set-Top Box).

- When you watch an analog (regular) broadcast on a wide-screen TV (with the 4:3 screen mode selected).



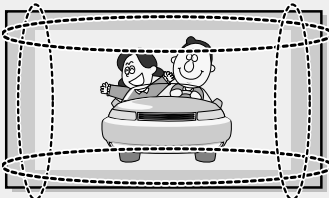
Although digital broadcasting must be in the wide screen (16:9) HD format, broadcasters sometimes show programs made originally in the regular screen format (4:3) by converting the signals into digital form, in which case the left and right side edges of the screen are cropped.

Note : If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amount of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience temporary or permanent image burn.

- When you watch a DVD, CD or a video in wide-screen (21:9) format on a wide-screen (16:9) TV.

- When you connect a computer or a game console to the TV and select the 4:3 screen mode.



If you connect a DVD player, computer or a game console to the wide-screen TV and watch a movie or play a game in regular (4:3) or wide (21:9) screen mode, the left and right side edges, or the top and bottom edges of the screen will be cropped.

Note : If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amount of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience temporary or permanent image burn.

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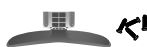
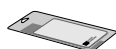
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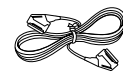
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Checking Parts



Sold Separately



Symbols



Press

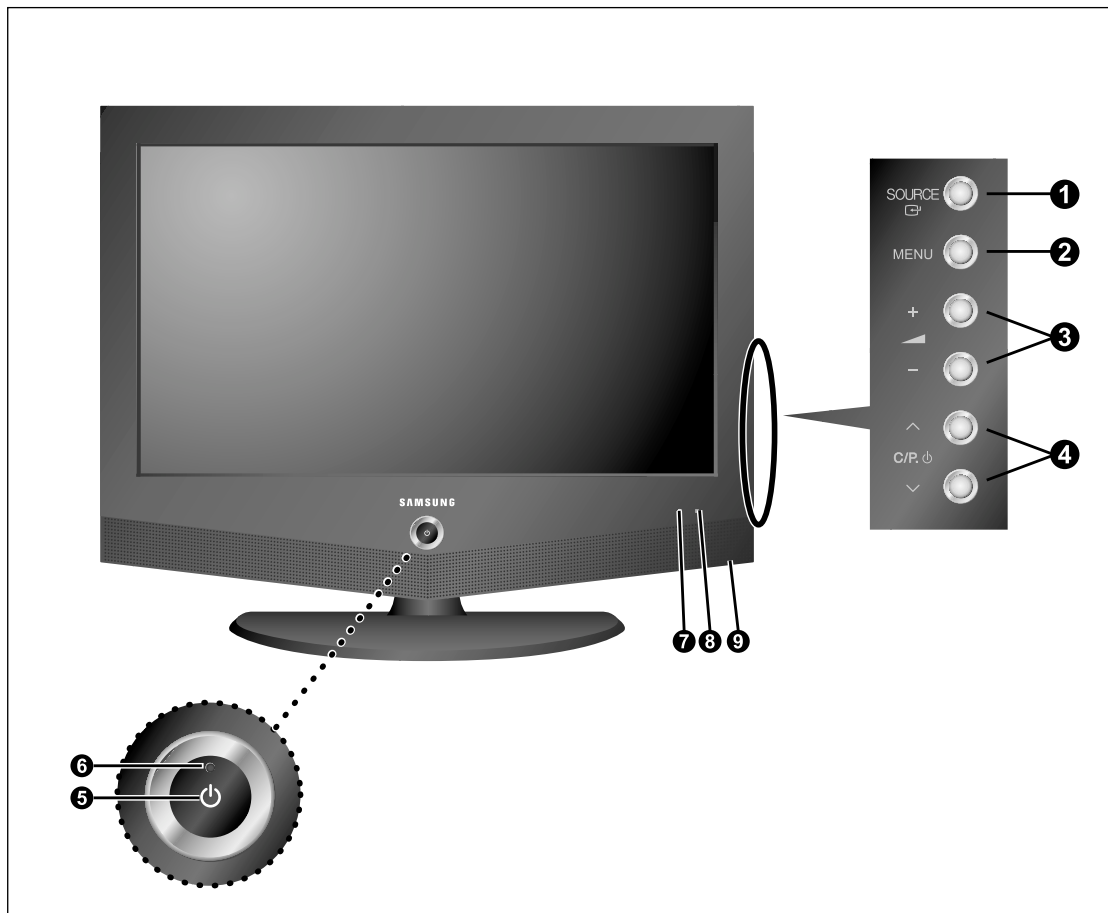


Important



Note

Viewing the Control Panel



1 SOURCE

Displays a menu of all of the available input sources (TV, DTV, Ext. 1, Ext. 2, AV, S-Video, Component, PC, HDMI). In the on-screen menu, use this button as you use the **ENTER** button on the remote control.

2 MENU

Press to see an on-screen menu of your TV's features.

3 - +

Press to decrease or increase the volume.
In the on-screen menu, use the - + buttons as you use the and buttons on the remote control.

4 C/P.

Press to change channels.
In the on-screen menu, use the C/P. buttons as you use the and buttons on the remote control.
(Without the Remote Control, you can turn on TV by using the channel buttons.)

5 (Power)

Press to turn the TV on and off.

6 Power Indicator

Blinks and turns off when the power is on and lights up in stand-by mode.

7 Light Detecting Sensor

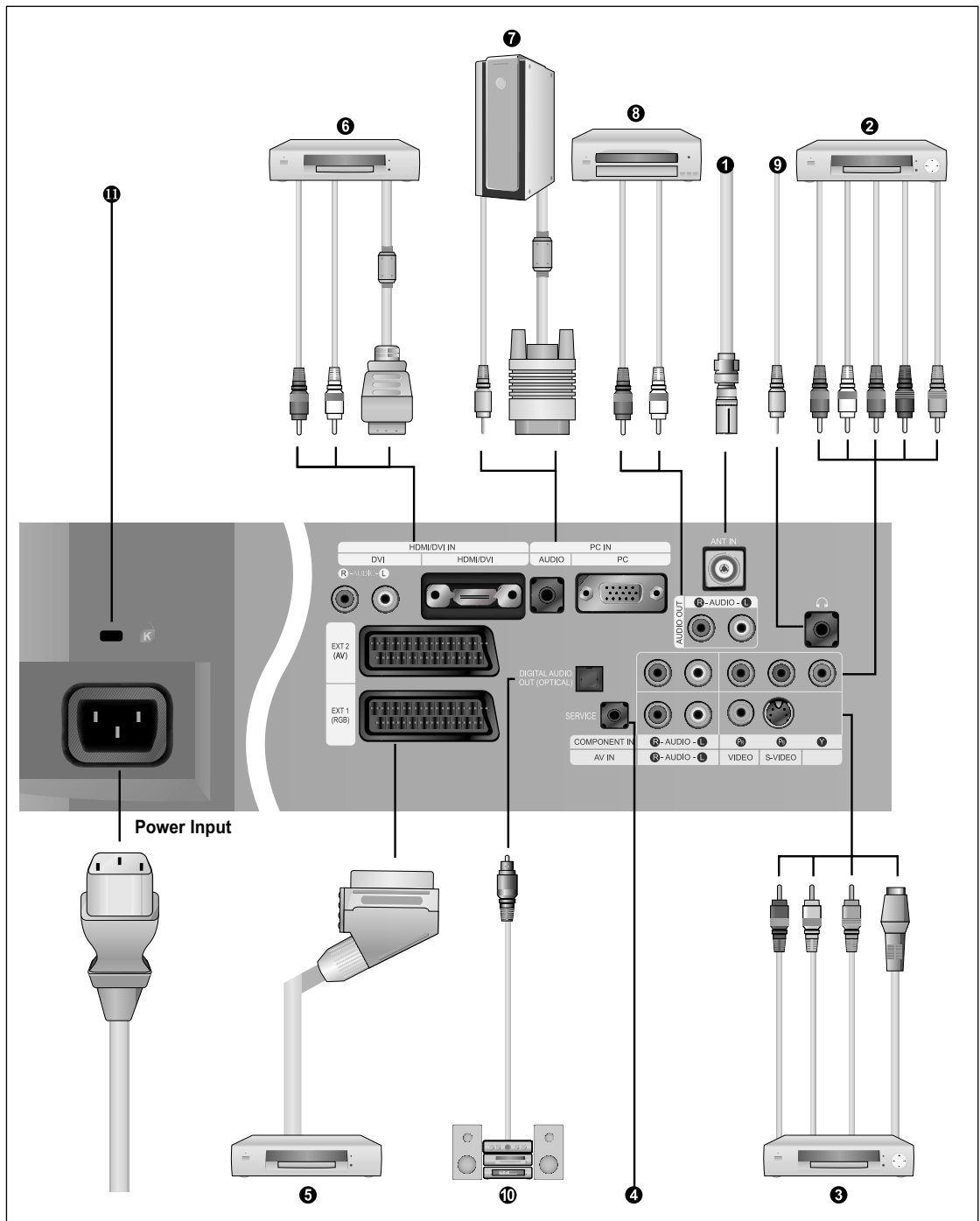
Adjusts brightness of screen automatically by detecting brightness of surrounding environment. This sensor works when Brightness Sensor is on.

8 Remote Control Sensor

Aim the remote control towards this spot on the TV.

9 Speakers

Viewing the Connection Panel



⚠ Whenever you connect an audio or video system to your set, ensure that all elements are switched off.
When connecting an external device, match the colour of the connection terminal to the cable.

Viewing the Connection Panel

❶ Connecting an Aerial or Cable Television Network

To view television channels correctly, a signal must be received by the set from one of the following sources:

- An outdoor aerial
- A cable television network
- A satellite network

❷ Connecting Component Devices (DTV/DVD)

- Connect component video cables to component connectors ("P_R", "P_B", "Y") on the rear of your set and the other ends to corresponding component video out connectors on the DTV or DVD.
- If you wish to connect both the Set-Top Box and DTV (or DVD), you should connect the Set-Top Box to the DTV (or DVD) and connect the DTV (or DVD) to component connector ("P_R", "P_B", "Y") on your set.
- The P_R, P_B and Y connectors on your component devices (DTV or DVD) are sometimes labeled Y, B-Y and R-Y or Y, Cb and Cr.
- Connect RCA audio cables to "R - AUDIO - L" on the rear of your set and the other ends to corresponding audio out connectors on the DTV or DVD.

❸ Connecting External A/V Devices

- Connect RCA or S-VIDEO cable to an appropriate external A/V device such as VCR, DVD or Camcorder.
- Connect RCA audio cables to "R - AUDIO - L" on the rear of your set and the other ends to corresponding audio out connectors on the A/V device.
- Headphone may be connected to the headphone output (❹) on the rear of your set. While the headphone is connected, the sound from the built-in speakers will be disabled.

❹ SERVICE

- Connector for engineer.

❺ Connecting Set-Top Box, VCR or DVD

- Connect the VCR or DVD SCART cable to the SCART connector of the VCR or DVD.
- If you wish to connect both the Set-Top Box and VCR (or DVD), you should connect the Set-Top Box to the VCR (or DVD) and connect the VCR (or DVD) to your set.

➤ Input/Output Specification

Connector	Input				Output
	Video	Audio (R/L)	S-Video	RGB	Video+Audio (R/L)
SCART 1 (EXT 1)	✓	✓		✓	Only TV Out
SCART 2 (EXT 2)	✓	✓			Monitor Out (TV/DTV/Ext. 1/Ext. 2/AV/S-VHS)

Viewing the Connection Panel

6 Connecting HDMI/DVI

- Supports connections between HDMI-connection-enabled AV devices (Set-Top Boxes, DVD players, AV receivers and digital TVs).
- No sound connection is needed for an HDMI to HDMI connection.

➤ What is HDMI?

- HDMI, or high-definition multimedia interface, is a next-generation interface that enables the transmission of digital audio and video signals using a single cable without compression.
 - "Multimedia interface" is a more accurate name for it especially because it allows multiple channels of digital audio (5.1 channels). The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed, and supports multi - channel digital audio.
- Use the HDMI/DVI terminal for DVI connection to an extended device.
- You should use the DVI-to-HDMI cable or DVI-HDMI Adapter for the connection, and the "R - AUDIO - L" terminal on DVI for sound output.

7 Connecting Computer

- Connect the D- Sub cable to "PC (PC IN)" on the rear of your set and the other end to the D-Sub connector of the Video Card on your computer.
- Connect the stereo audio cable to "AUDIO (PC IN)" on the rear of your set and the other end to "Audio Out" of the sound card on your computer.

8 Connecting AUDIO

- Connect RCA audio cables to "R - AUDIO - L" on the rear of your set and the other ends to corresponding audio in connectors on the Amplifier or DVD Home Theater.

	Speaker			SCART1, SCART2 Out & Audio Out		
	RF	DTV, Scart, AV, S-Video	Component, PC, HDMI	RF	DTV, Scart, AV, S-Video	Component, PC, HDMI
Internal Mute Off	Speaker Output	Speaker Output	Speaker Output	Sound Output	Sound Output	Sound Output
Internal Mute On	Mute	Mute	Mute	Sound Output	Sound Output	Sound Output
Video No Signal	Mute	Mute	Mute	Mute	Sound Output	Sound Output

- Digital Audio Out : Available in the Digital TV mode.

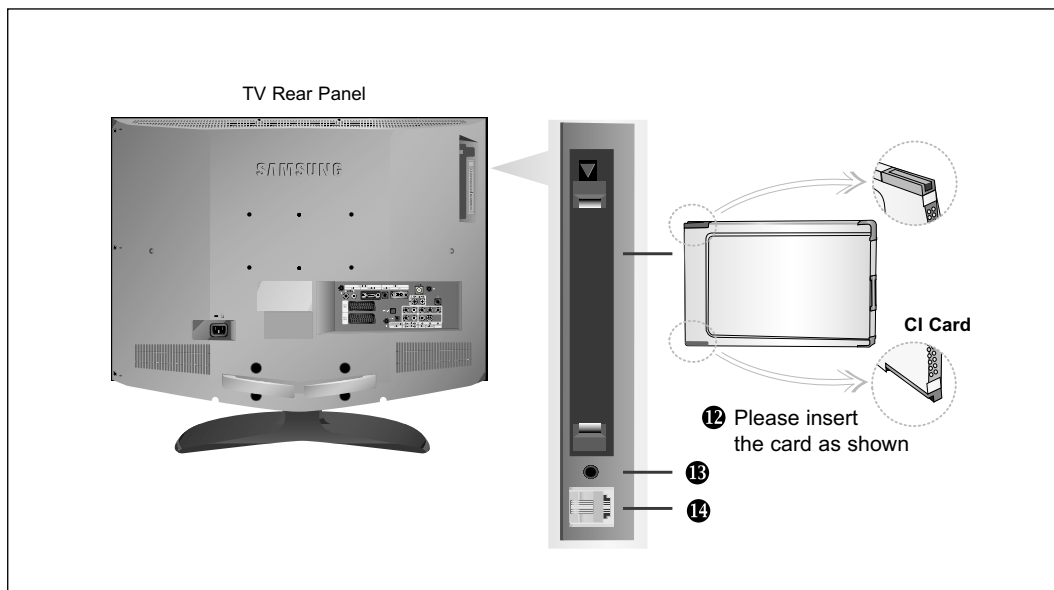
10 DIGITAL AUDIO OUT (OPTICAL)

- Using an optical digital audio cable, this jack allows you to connect your WIRELESS HOME AV CENTER to a Home Theater or A/V receiver with an optical digital audio input.

11 Kensington Lock

- Refer to "Using the Anti-Theft Kensington Lock" on page 77.
- The place of the Kensington Lock may be different depending on its model.

Viewing the Connection Panel



12 Connecting CI (Common Interface) Card

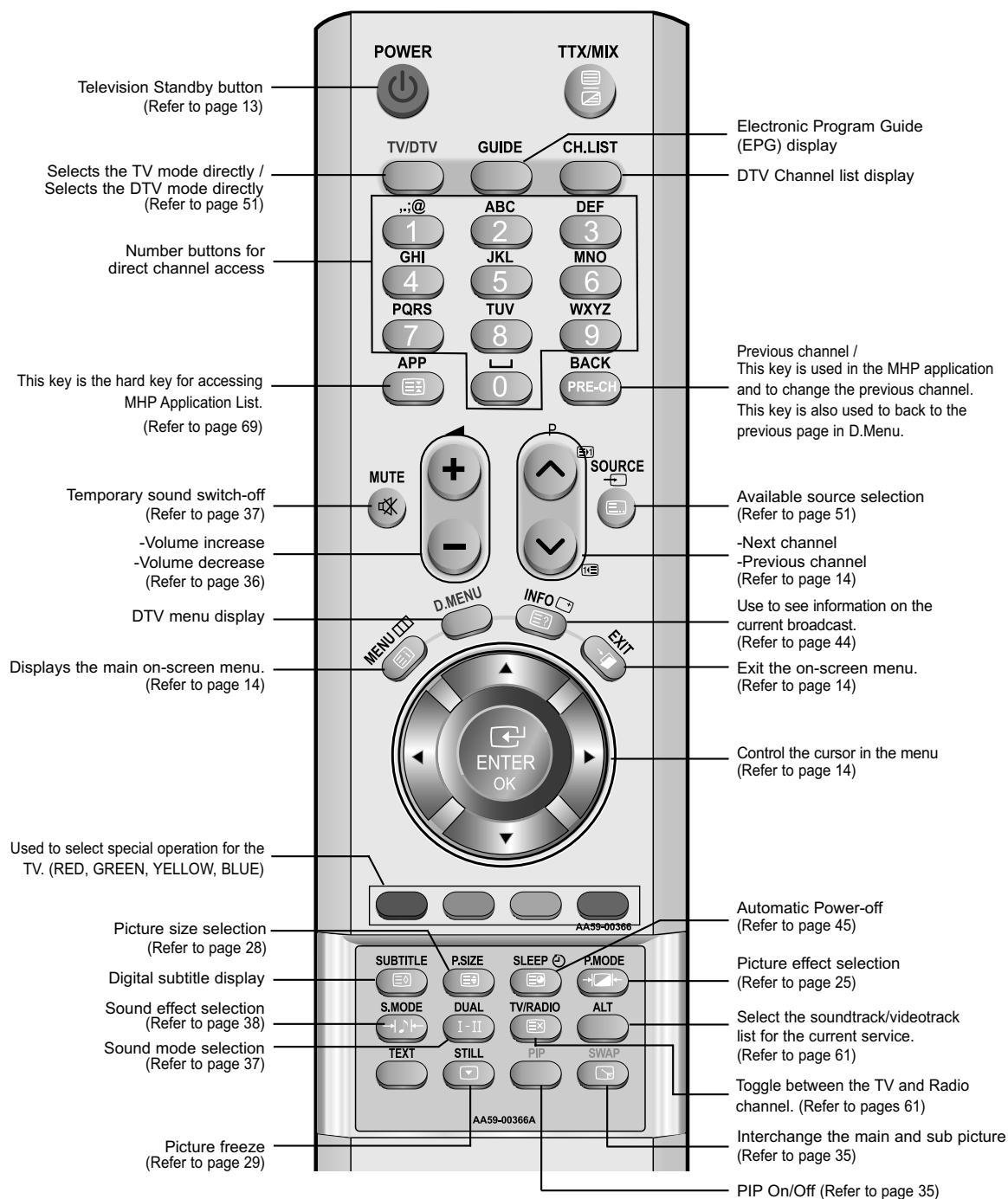
- When not inserting "CI Card" in some channels, "Scramble Signal" is displayed on the screen.
 - The pairing information containing a telephone number, CI Card ID, Host ID, and other information will be displayed in about 2~3 minutes. If an error message is displayed, please contact your service provider.
 - When the channel information configuration has finished, the message "Updating Completed" is displayed, indicating that the channel list is now updated.
- You must obtain a CI Card from a local cable service provider. Remove the CI Card by carefully pulling it out with your hands since dropping the CI Card may cause damage to it.

13 TV/DTV Service

- Connector for engineer.

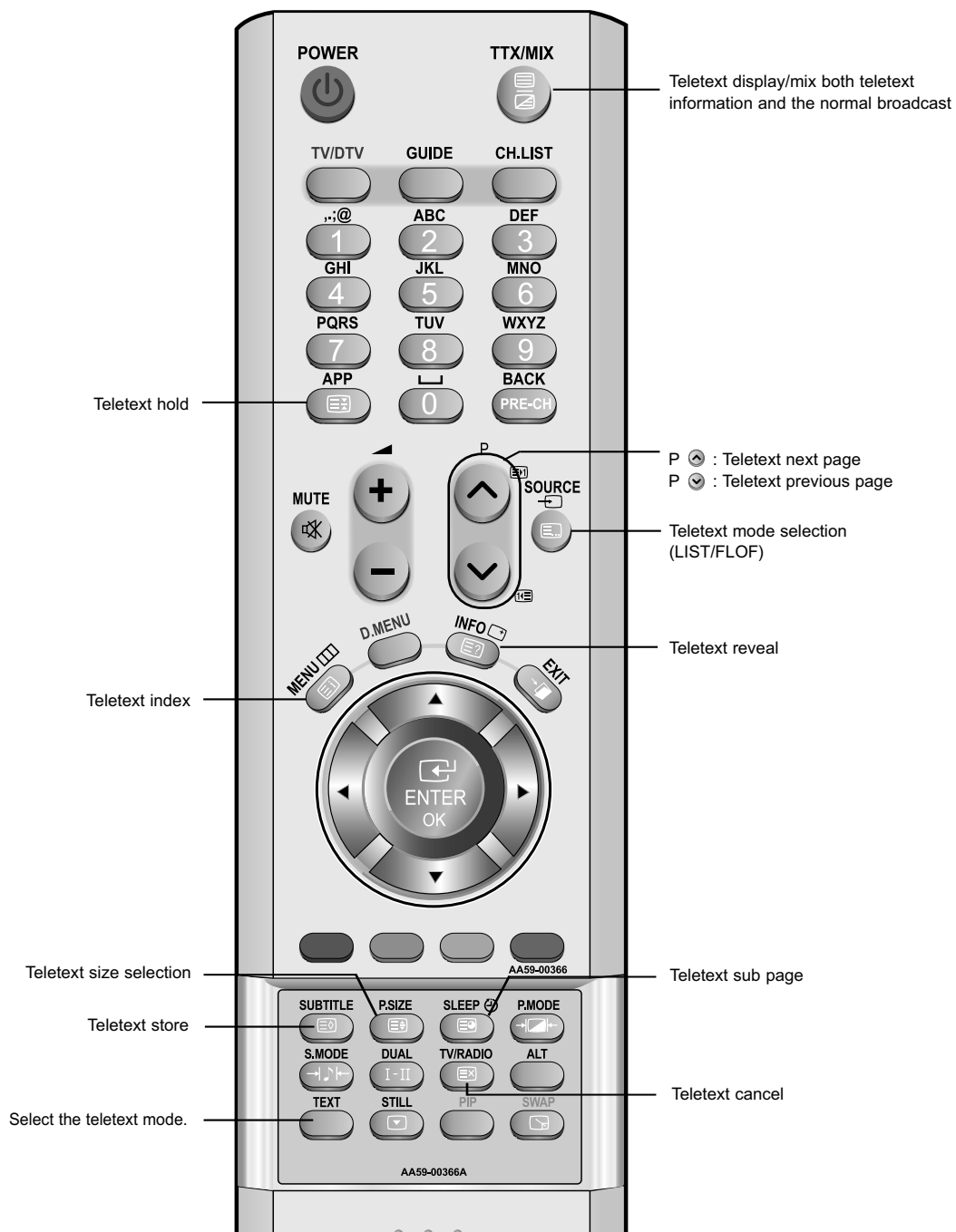
14 Modem connection port

Viewing the Remote Control (All Functions Except Teletext)



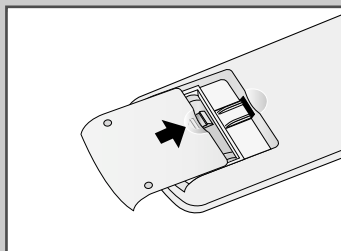
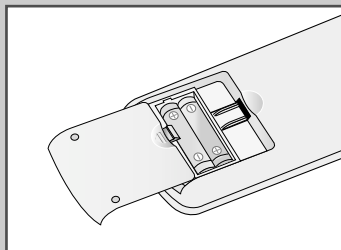
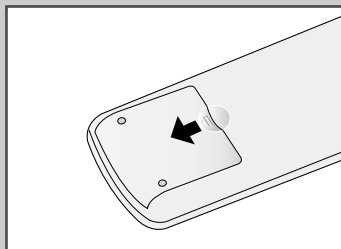
➤ The performance of the remote control may be affected by bright light.

Viewing the Remote Control (Teletext Functions)



➤ Teletext Function : Refer to pages 57-59 for details

Installing Batteries in the Remote Control



1 Slide the cover out completely.

2 Install two AAA size batteries.

➤ Make sure to match the “+” and “-” ends of the batteries with the diagram inside the compartment.

3 Replace the cover.

➤ Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time. The remote control can be used up to about 23 feet from the TV. (Assuming typical TV usage, the batteries last for about one year.)

➤ **If the remote control doesn't work!**

Check the following:

1. Is the TV power on?

2. Are the plus and minus ends of the batteries reversed?

3. Are the batteries drained?

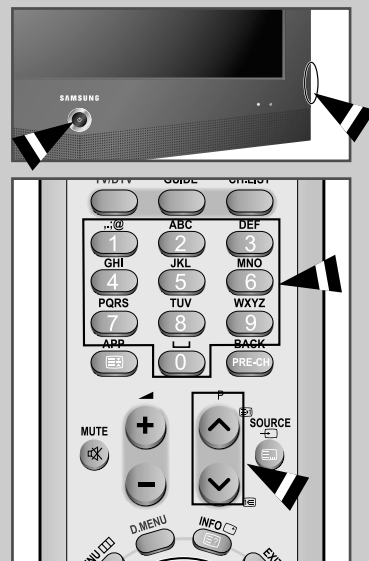
4. Is there a power cut, or is the power cord unplugged?

5. Is there a special fluorescent light or a neon sign nearby?

Switching On and Off

The mains lead is attached to the rear of your set.

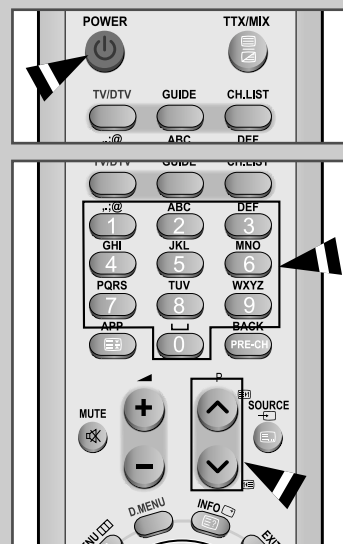
- 1 Plug the mains lead into an appropriate socket.
Result: The standby indicator lights up on the front panel.
 ➤ The main voltage is indicated on the rear of your set and the frequency is 50 or 60Hz.
- 2 Press the **POWER** ⏻ button on the front of the panel.
Result: The programme that you were watching last is reselected automatically.
- 3 Press the numeric button (0~9) or channel up/down (⬆/⬇) button on the remote control or **C/P** ⬆ button on the right side of the panel.
 ➤ When you switch the set on for the very first time, you will be asked to choose language in which the menus are to be displayed (see page 15).
- 4 To switch your set off, press the **POWER** ⏻ button again.



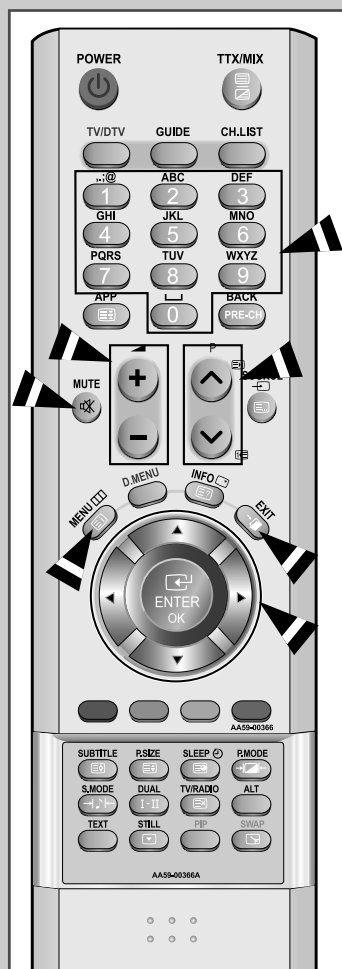
Placing Your Television in Standby Mode

Your set can be placed in standby mode in order to reduce the power consumption. The standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

- 1 Press the **POWER** ⏻ button on the remote control.
Result: The screen is turned off and a red standby indicator appears on the front of your set.
- 2 To switch your set back on, simply press the **POWER** ⏻, numeric buttons (0~9) or channel up/down (⬆/⬇) button again.
 ➤ Do not leave your set in standby mode for long periods of time (when you are away on holiday, for example).
 It is best to unplug the set from the mains and aerial.



Becoming Familiar with the Remote Control



The remote control is used mainly to:


- ◆ Change channels and adjust the volume.
- ◆ Set up your set using the on-screen menu system.

The following table presents the most frequently used buttons and their functions.

Button	Viewing Function	Menu Function
	Used to display the next stored channel.	-
	Used to display the previous stored channel.	-
	Used to display the corresponding channels. ➤ For double digit channels, the second digit must be pushed immediately after the first. Failure to do this will result in a single digit channel being displayed.	-
	Used to increase the volume.	-
	Used to decrease the volume.	-
MUTE 	Used to switch the sound off temporarily. ➤ To turn the sound back on, press this button again, or press the / button.	-
MENU 	Used to display the on-screen menu system.	Used to return to the previous menu or normal viewing.
EXIT 	Used to exit the on-screen menu system.	-
	<ul style="list-style-type: none"> ▲ ▼ Used to move among the menu items. ▶ Used to select a menu item or increase the value of the selected item. ◀ Used to return to the previous menu item or decrease the value of the selected item. 	-
ENTER OK 	-	Used to confirm your choice.

Plug and Play


*When the set is initially powered ON, several basic customer settings proceed automatically and subsequently.
The following settings are available.*

- 1 If the set is in standby mode, press the **POWER**  button on the remote control.

Result: The message **Start Plug & Play.** is displayed. It appears for a little while, and then the **Language** menu is automatically displayed.

- 2 Select the appropriate language by pressing the **▲** or **▼** button.


➤ The available languages are listed.
You can choose one of 5 languages.

- 3 Press the **ENTER**  button to confirm your choice.

Result: The message **Check antenna input.** is displayed with the **OK** selected.

- 4 Press the **ENTER**  button.


Result: The following areas are available:
**Belgium - France - Germany - Italy -
Netherlands - Spain - Sweden - Switzerland -
United Kingdom - Eastern Europe- Others**


- 5 Select your **Country** by pressing the **▲** or **▼** button.
Press the **ENTER**  button.


Result: The **Auto Store** menu is displayed with the **Start** selected.

- 6 Press the **ENTER**  button.

Result: The channel search will start and end automatically.

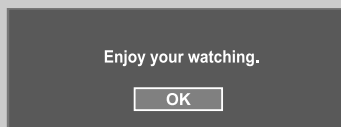
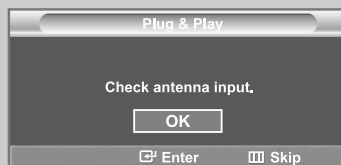
➤ To stop the search before it has finished, press the **ENTER**  button with **Stop** selected.

- 7 Press the **ENTER**  button.
Select the hour or minute by pressing the **◀** or **▶** button.
Set the hour or minute by pressing the **▲** or **▼** button.
(Refer to “**Setting and Displaying the Current Time**” on page 44)

- 8 Press the **ENTER**  button to confirm your setting.

Result: The message **Enjoy your watching.** is displayed, and then the channel which has been stored will be activated.

➤ You can also set hour and minute by pressing the number buttons on the remote control.



Plug and Play



If you want to reset this feature...

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.
Press the **ENTER** button.
Result: The options available in the **Setup** group are displayed.
- 3 The **Plug & Play** is selected.
- 4 Press the **ENTER** button.
Result: The message **Start Plug & Play.** is displayed.
- 5 For further details on how to set, refer to the previous page.

➤ This function does not work in PC mode or DTV mode.

Choosing Your Language



When you start using your set for the first time, you must select the language which will be used for displaying menus and indications.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **ENTER** button.
- 4 Press the **▲** or **▼** button to select **Language**.
Press the **ENTER** button.
Result: The available languages are listed.
- 5 Select a particular language by pressing the **▲** or **▼** button repeatedly.
Press the **ENTER** button.
➤ You can choose one of 5 languages.
- 6 When you are satisfied with your choice, press the **EXIT** button to return to normal viewing.

Storing Channels Automatically

You can scan for the frequency ranges available to you (and availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However, you can sort numbers manually and clear any channels you do not wish to watch.

- 1 Press the **MENU** () button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

- 3 Press the **ENTER** () button.

Result: The **Country** is selected.

- 4 Press the **ENTER** () button again. Select your **Country** by pressing the **▲** or **▼** button repeatedly.

Result: The following countries are available:
**Belgium - France - Germany - Italy -
 Netherlands - Spain - Sweden - Switzerland -
 United Kingdom - Eastern Europe- Others**

- 5 Press the **ENTER** () button.

- 6 Press the **▲** or **▼** button to select **Auto Store**.
 Press the **ENTER** () button.

Result: The **Auto Store** menu is displayed with the **Start** selected.

- 7 Press the **ENTER** () button to search the channels. The sub menu is changed from **Start** to **Stop** with channel search started.

Result: The search will end automatically. Channels are sorted and stored in an order which reflects their position in the frequency range (with lowest first and highest last). The programme originally selected is then displayed.

➤ To return to the previous menu, press the **MENU** () button.

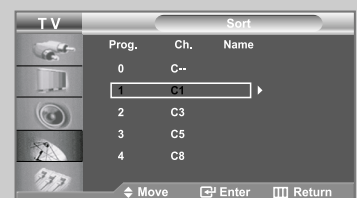
➤ To stop the search before it has finished, press the **ENTER** () button with **Stop** selected.

- 8 When searching and storing are complete, the Sort menu is displayed.

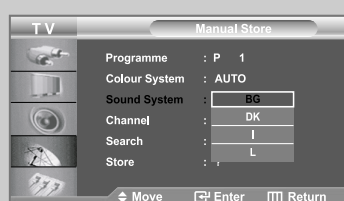
- ◆ To sort the stored channels into the desired numerical order, go to step 4 of the "Sorting the Stored Channels" procedure on page 21.
- ◆ To exit from the channel store function without sorting the channels, press the **MENU** () button repeatedly until the menus disappear.

- 9 When the channels have been stored, you can:

- ◆ Sort them in the order required (refer to page 21)
- ◆ Assign names to the stored channels (refer to page 22)
- ◆ Add or delete the channels (refer to page 20)
- ◆ Fine tune channel reception if necessary (refer to page 23)



Storing Channels Manually



You can store up to 100 channels, including those received via cable networks. When storing channels manually, you can choose:

- ◆ Whether or not to store each of the channels found.
- ◆ The programme number of each stored channel which you wish to identify.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **▲** or **▼** button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** button.

4 Press the **▲** or **▼** button to select **Manual Store**. Press the **ENTER** button.

Result: The options available in the **Manual Store** menu are displayed with **Programme** selected.

5 Press the **ENTER** button again.

To assign a programme number to a channel, find the correct number by pressing the **▲** or **▼** button and then press the **ENTER** button.

➤ You can also set a programme number by pressing number buttons on the remote control.

6 Press the **▲** or **▼** button to select **Colour System** and then press the **ENTER** button. Select the colour standard required by pressing the **▲** or **▼** button repeatedly and then press the **ENTER** button.

Result: The colour standards are displayed in the following order:
AUTO - PAL - SECAM - NTSC 4.43

7 Press the **▲** or **▼** button to select **Sound System** and then press the **ENTER** button. Select the sound standard required by pressing the **▲** or **▼** button repeatedly and then press the **ENTER** button.

Result: The sound standards are displayed in the following order:
BG - DK - I - L

Storing Channels Manually

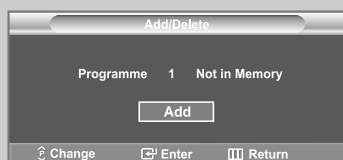
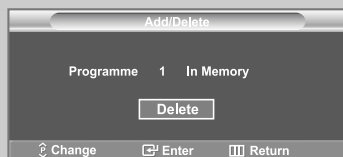
- 8 If you know the number of the channel to be stored,
- ◆ Press the ▲ or ▼ button to select **Channel** and then press the **ENTER** button.
 - ◆ Select **C** (Air channel) or **S** (Cable channel) by pressing the ▲ or ▼ button.
 - ◆ Press the ► button to select channel.
 - ◆ Select the required number by pressing the ▲ or ▼ button and then press the **ENTER** button.
 - If there is an abnormal sound or no sound, re-select the sound system required.
 - You can also set a channel by pressing number buttons on the remote control.
- 9 If you do not know the channel numbers, press the ▲ or ▼ button to select **Search** and then press the **ENTER** button. **Search** by pressing the ▲ or ▼ button and then press the **ENTER** button.
- Result: The tuner scans the frequency range until the first channel or the channel that you selected is received on your screen.
- 10 Press the ▲ or ▼ button to select **Store**. Select **OK** by pressing the **ENTER** button.
- Result: The channel and associated programme number are stored.
- 11 Repeat steps 5 to 10 for each channel to be stored.
- 12 Press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

Channel mode

- ◆ **P** (Programme mode): When tuning is completed, the broadcasting stations in your area will have been assigned to position numbers from P00 to P99. You can select a channel by entering the position number in this mode.
- ◆ **C** (Real channel mode): You can select a channel by entering the assigned number to each broadcast station in this mode.
- ◆ **S** (Cable channel mode): You can select a channel by entering the assigned number to each cable channel in this mode.



Editing the Channels



You can exclude the channels you chose from the channels you scanned. When you scan through the stored channels, those you have chosen to skip are not displayed.

All channels that you do not specifically choose to skip are displayed during scanning.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Channel**.
 Press the **ENTER** button.
Result: The options available in the **Channel** group are displayed.
- 3 Press the **▲** or **▼** button to select **Add/Delete**.
 Press the **ENTER** button.
Result: The state of the current channel is displayed.
- 4 Press the **⏮** / **⏭** button to select channel that you wish to add or delete.
Result: If the channel that you wish to edit is not in memory, the **Add** is selected and displayed.
 Otherwise, if the channel that you wish to edit is in memory, the **Delete** is selected and displayed.
- 5 Press the **ENTER** button to add or delete channel.
- 6 Repeat steps 4 and 5 for each channel to be added or deleted.
- 7 Press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

Sorting the Stored Channels

You can exchange the numbers of two channels, in order to:

- ◆ *Modify the numeric order in which the channels have been automatically stored.*
- ◆ *Give easily remembered numbers to the channels that you watch most often.*

1 Press the **MENU**  button.


Result: The main menu is displayed.

2 Press the **▲** or **▼** button to select **Channel**.
Press the **ENTER**  button.


Result: The options available in the **Channel** group are displayed.

3 Press the **▲** or **▼** button to select **Sort**.
Press the **ENTER**  button.

Result: The **Prog.**, **Ch.** and **Name** are displayed.


4 Select the channel number that you wish to change by pressing the **▲** or **▼** button repeatedly.
Press the **ENTER**  button.

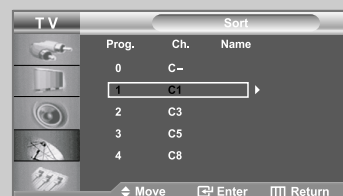
Result: The selected the channel number and name are moved to right side.

5 Press the **▲** or **▼** button to move to the position in which you would like to change and then press the **ENTER**  button.

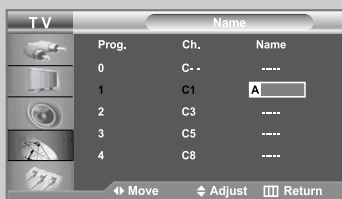
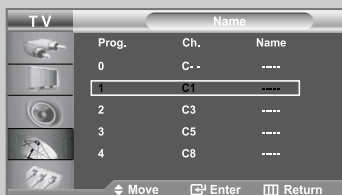
Result: The selected channel is exchanged with the one previously stored to the chosen number.

6 Repeat steps 4 to 5 for another channel to be sorted.

7 Press the **MENU**  button to return to the previous menu or press the **EXIT** button to return to normal viewing.



Assigning Channels Names



Channel names will be assigned automatically when channel information is broadcast. These names can be changed, allowing you to assign new names.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Channel**.
Press the **ENTER** button.

Result: The options available in the **Channel** group are displayed.

- 3 Press the **▲** or **▼** button to select **Name**.
Press the **ENTER** button.

Result: The current **Prog.**, **Ch.** and **Name** are displayed.

- 4 If necessary, select the channel to be assigned to a new name by pressing the **▲** or **▼** button.
Press the **ENTER** button.

Result: The selection bar is displayed around the name box.

5	To...	Then...
	Select a letter, number or symbol	Press the ▲ or ▼ button
	Move on the next letter	Press the ▶ button
	Move back the previous letter	Press the ◀ button
	Confirm the name	Press the ENTER button

- The characters available are :
- ◆ Letters of the alphabet (A~Z)
 - ◆ Numbers (0~9)
 - ◆ Special characters (-, space)

- 6 Repeat steps 4 to 5 for each channel to be assigned to a new name.

- 7 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

Fine Tuning Channel Reception

If the reception is clear, you do not have to fine-tune the channel, as this is done automatically during the search and store operation. If, however, the signal is weak or distorted, you may have to fine-tune the channel manually.

➤ Select the channel that you want to fine tune.

- 1 Press the **MENU**  button.


Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Channel**.
Press the **ENTER**  button.

Result: The options available in the **Channel** group are displayed.


- 3 Press the **▲** or **▼** button to select **Fine Tune**.
Press the **ENTER**  button.

Result: The horizontal bar is displayed.

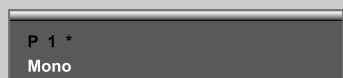
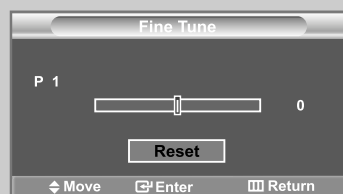
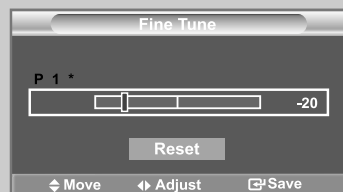
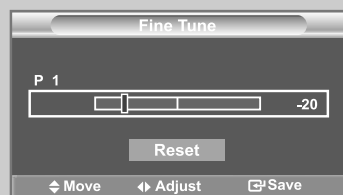
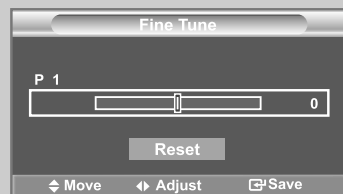
- 4 Press the **◀** or **▶** button to reach the required setting.
Press the **ENTER**  button.

Result: An asterisk "*" appears on the right-hand side of the channel number. The channel number turns red.

➤ To reset the fine-tuning, select **Reset** by pressing the **▲** or **▼** button and then press the **ENTER**  button.

- 5 When you are satisfied with the setting, press the **MENU**  button to return to the previous menu or press the **EXIT** button to return to normal viewing.

➤ Fine tuned channels that have been saved are marked with an asterisk "*" on the right-hand side of the channel number in the channel banner. And the channel number turns red.



LNA (Low Noise Amplifier)



If the Set is operating in a weak-signal area, sometimes the LNA function can improve the reception.

-
- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Channel**.
Press the **ENTER**  button.

Result: The options available in the **Channel** group are displayed.

- 3 Press the **▲** or **▼** button to select **LNA**.
Press the **ENTER**  button.

Result: The **LNA** menu is displayed.

- 4 Select **On** by pressing **▲** or **▼** button.
Press the **ENTER**  button.

Result: Amplifies signals when antenna reception is poor.
However if incoming signals are interfering with each other, tune off **LNA** as it may malfunction.

- 5 When it has finished, press the **EXIT** button to return to normal viewing.
-

Changing the Picture Standard

You can select the type of picture which best corresponds to your viewing requirements.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

- 3 Press the **ENTER** button.

- 4 Press the **ENTER** button again.

Result: The options available in the **Mode** group are displayed.

- 5 Press the **ENTER** button.

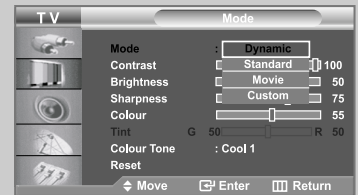
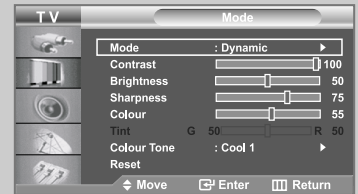
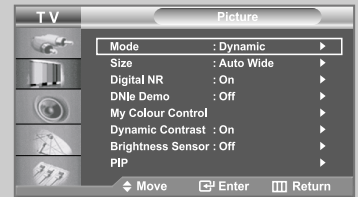
Result: The **Mode** is selected.

- 6 Select the required picture effect by pressing the **▲** or **▼** button repeatedly.

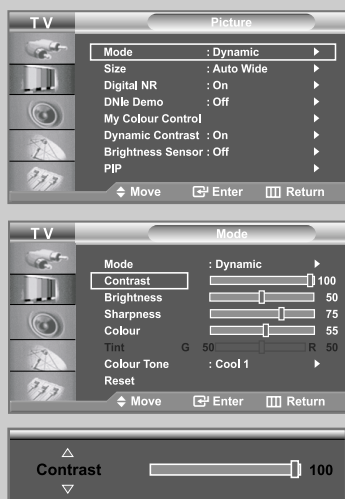
Result: The following picture effects are available:
Dynamic - Standard - Movie - Custom

- 7 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

➤ You can also display by simply pressing the **P.MODE** (Picture Mode) button under the remote's cover.



Adjusting the Custom Picture








Your set has several settings which allow you to control picture quality.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Picture**.
Result: The options available in the **Picture** group are displayed.
- 3 Press the **ENTER** button.
Result: The options available in the **Mode** group are displayed.
- 4 Press the **ENTER** button again.
Result: The options available in the **Mode** group are displayed.
- 5 Select the option (**Contrast, Brightness, Sharpness, Colour, Tint**) to be adjusted by pressing the **▲** or **▼** button. Press the **ENTER** button.
Result: The horizontal bar is displayed.
- 6 Press the **◀** or **▶** button to reach the required setting. Press the **ENTER** button.
- 7 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

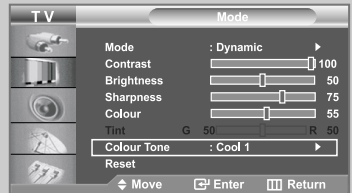
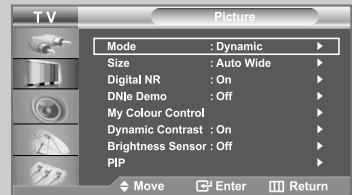
- ◆ The adjusted values are stored according to the selected Picture mode.
- ◆ Each adjusted setting will be stored separately according to its input mode.
- ◆ The Tint is "inactivated" as following cases.
- Analog mode (RF, Scart, Video, S-Video)
In case of an input signal setting to PAL-50, PAL-CN, and SECAM.
 - Component, DVI, and HDMI mode
In case of an input signal setting to 60Hz; 480i, 480p, 720p @60Hz, 1080i @60Hz.

Changing the Colour Tone

You can select the most comfortable colour tone to your eye.





- 1 Press the **MENU**  button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Picture**.
Result: The options available in the **Picture** group are displayed.
- 3 Press the **ENTER**  button.
- 4 Press the **ENTER**  button again.
Result: The options available in the **Mode** group are displayed.
- 5 Press the **▲** or **▼** button to select **Colour Tone** and press the **ENTER**  button. Select the required option by pressing the **▲** or **▼** button repeatedly. Press the **ENTER**  button.
Result: The following options are available:
Cool2 - Cool1 - Normal - Warm1 - Warm2
- 6 When you are satisfied with your choice, press the **EXIT** button to return to normal viewing.

➤ The adjusted values are stored according to the selected Picture mode.

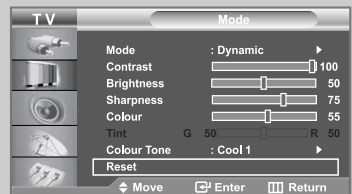
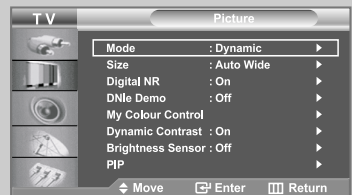


Resetting the Picture Settings to the Factory Defaults

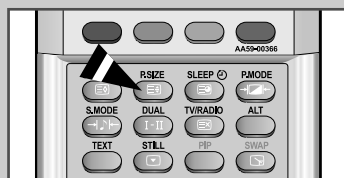
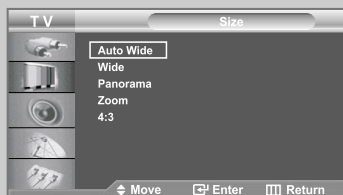
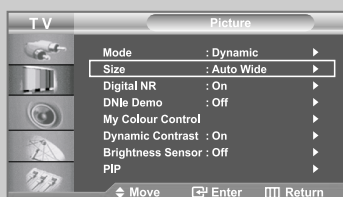
You can return to the factory defaults picture settings.

- 1 Press the **MENU**  button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Picture**.
Result: The options available in the **Picture** group are displayed.
- 3 Press the **ENTER**  button.
- 4 Press the **ENTER**  button again.
Result: The options available in the **Mode** group are displayed.
- 5 Press the **▲** or **▼** buttons to select **Reset**, then press the **ENTER**  button.
- 6 Press the **EXIT** button to return to normal viewing.

➤ The **Reset** will be set in each picture mode.



Changing the Picture Size



You can select the picture size which best corresponds to your viewing requirements.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

- 3 Press the **ENTER** button.

- 4 Press the **▲** or **▼** button to select **Size** and press the **ENTER** button.



- 5 Select the required option by pressing the **▲** or **▼** button repeatedly.
Press the **ENTER** button.

Result: The following options are available:

Auto Wide – Wide – Panorama – Zoom – 4:3

- **Auto Wide:** Automatically adjusts the picture size to the "Wide" aspect ratio.
- **Wide:** Adjusts the picture size to 16:9 appropriate for DVDs or wide broadcasting.
- **Panorama:** Adjusts 16:9 to 4:3 in a natural way as for normal broadcasting.
- **Zoom:** Magnifies the size of the picture on the screen.

[Positioning and Sizing the screen using Zoom]

- Resizing the screen using the Zoom enables the positioning and sizing of the screen to up/down direction using the **▲** or **▼** button as well as the screen size.
- Move the screen up/down using the **▲** or **▼** button after selecting the  by pressing the **◀** or **▶** button.
- Resize the screen vertically using the **▲** or **▼** button after selecting the  by pressing the **◀** or **▶** button. (Pressing the **▲** button extends it upward and pressing the **▼** button extends it downward.)
- **4:3:** This is the default setting for a video movie or normal broadcasting.

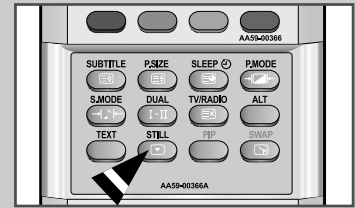
- 6 When you are satisfied with your choice, press the **EXIT** button to return to normal viewing.



- ◆ You can select these options by simply pressing the **P.SIZE** (Picture Size) button under the remote's cover.
- ◆ In PC Mode, only **Wide** and **4:3** mode can be adjusted.
- ◆ The specification of Picture Size Mode may vary according to the model.





Freezing the Current Picture

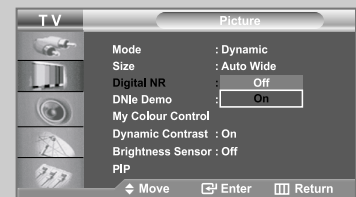
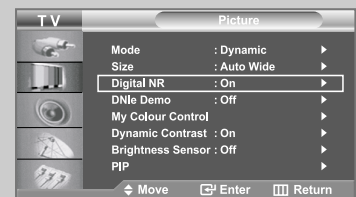
Press the **STILL** button to freeze a moving picture into a still one.
Press again to cancel.



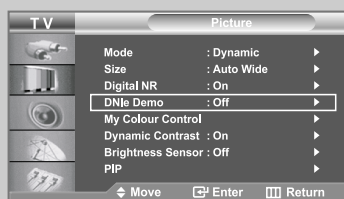
Using the Digital NR (Digital Noise Reduction) Feature

If the signal received by your television is weak, you can activate this feature to help reduce any static and ghosting that may appear on the screen.

- 1 Press the **MENU**  button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Picture**.
Result: The options available in the **Picture** group are displayed.
- 3 Press the **ENTER**  button.
- 4 Press the **▲** or **▼** button to select **Digital NR**.
Press the **ENTER**  button.
- 5 Press the **▲** or **▼** button to select **On**.
Press the **ENTER**  button.
- 6 Press the **EXIT** button to return to normal viewing.



DNle (Digital Natural Image engine)



Samsung's new technology brings you more detailed images with contrast and white enhancement. A new image compensation algorithm gives viewers brighter and clearer images.

DNle technology will match every signal to your eyes.

You can see how DNle improves the picture by setting DNle Demo mode to On.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

- 3 Press the **ENTER** button.

- 4 Press the **▲** or **▼** button to select **DNle Demo** and then press the **ENTER** button.

Press the **▲** or **▼** button to select **On**.

Press the **ENTER** button.



DNle Demo: Off

DNle Demo mode is deactivated.

DNle Demo: On

The right-hand side of the screen shows improved DNle image. The left-hand side of the screen shows the original image.

- 5 When you are satisfied with your choice, press the **EXIT** button to return to normal viewing.



This function doesn't work when source is in PC mode.



The **DNle Demo** is designed to show the difference between the regular and DNle pictures.



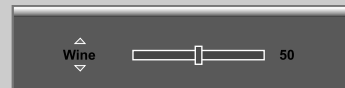
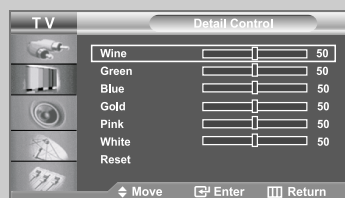
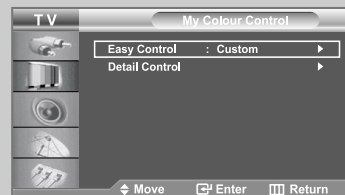
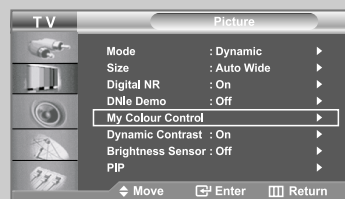
By default, the product displays the picture with DNle applied.

My Colour Control

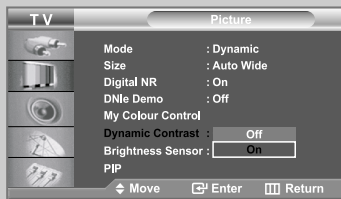
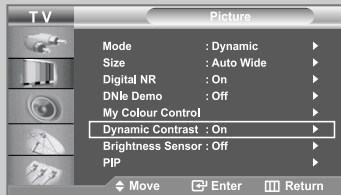
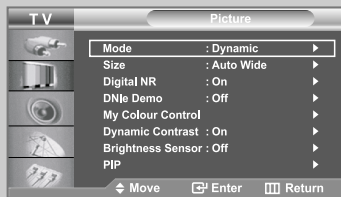
My Colour Control is to adjust the most preferred colours such as Wine, Green, Blue, Gold, Pink and White without interfering with other colours in order for each consumer to enjoy the screen colour of his/her choice.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Picture**.
Result: The options available in the **Picture** group are displayed.
- 3 Press the **ENTER** button.
- 4 Press the **▲** or **▼** button to select **My Colour Control** and then press the **ENTER** button.
Result: The options available in the **My Colour Control** menu are displayed.
- 5 Press the **ENTER** button to select **Easy Control**. Select a source of the sub picture by pressing the **◀** or **▶** button and press the **ENTER** button.
Result: The sources are displayed in the following order:
Wine - Green - Blue - Gold - Pink - White - Standard - Custom
- 6 Press the **▲** or **▼** button to select **Detail Control** and press the **ENTER** button. Select a source of the sub picture by pressing the **▲** or **▼** button and press the **ENTER** button.
Result: The sources are displayed in the following order:
Wine - Green - Blue - Gold - Pink - White- Reset
- 7 Press the **◀** or **▶** button to reach the required setting. Press the **ENTER** button.
- 8 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

- This function captures the current screen in a still image to adjust the colour.
- To return to the factory default settings for My Colour Control colours, select **Reset** by pressing the **▲** or **▼** button and then press the **ENTER** button.
- This function doesn't work when source is in PC mode.



Dynamic Contrast



Dynamic Contrast is to automatically detect distribution of inputted visual signal and adjust to create optimum contrast.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

- 3 Press the **ENTER** button.

- 4 Press the **▲** or **▼** button to select **Dynamic Contrast**. Press the **ENTER** button.

Result: The **Dynamic Contrast** menu is displayed.






- 5 Select **On** by pressing the **▲** or **▼** button. Press the **ENTER** button.

- 6 When it has finished, press the **EXIT** button to return to normal viewing.

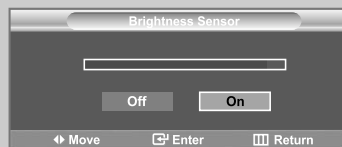
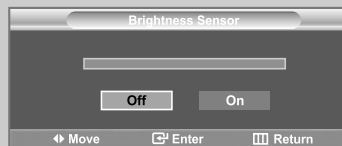
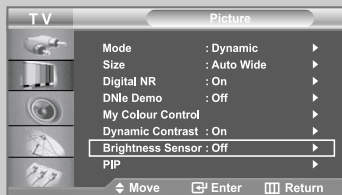
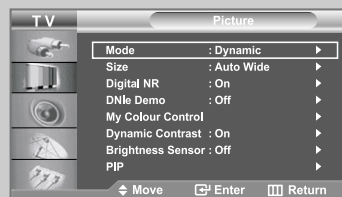
➤ This function doesn't work when source is in PC mode.

Brightness Sensor

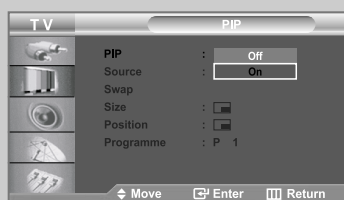
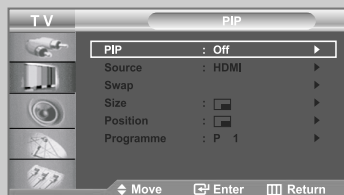
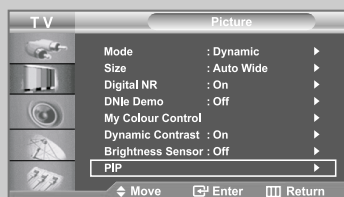
Brightness Sensor is to adjust brightness of screen either automatically or manually by detecting brightness of surrounding environment using light detecting sensor.

- 1 Press the **MENU**  button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Picture**.
Result: The options available in the **Picture** group are displayed.
- 3 Press the **ENTER**  button.
- 4 Press the **▲** or **▼** button to select **Brightness Sensor**.
Press the **ENTER**  button.
Result: The **Brightness Sensor** menu is displayed.
- 5 Select **On** by pressing the **◀** or **▶** button.
Press the **ENTER**  button.
Result: Brightness on the screen is adjusted automatically according to brightness of surrounding environment.
- 6 When it has finished, press the **ENTER**  button to return to the previous menu or press the **EXIT** button to return to normal viewing.

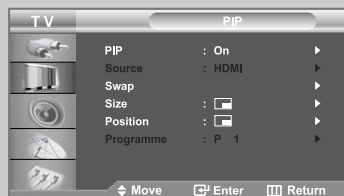
➤ This function doesn't work when source is in PC mode.



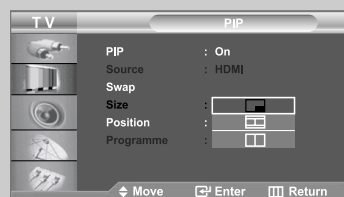
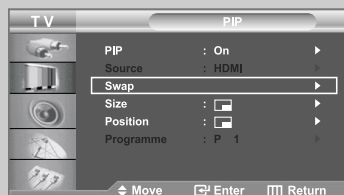
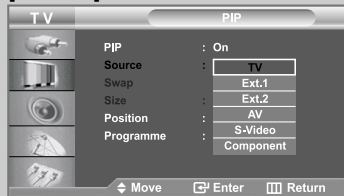
Viewing the Picture In Picture (PIP)



[TV/Ext. 1/Ext. 2/AV/S-Video/Component]



[PC/HDMI]



You can display a sub picture within the main picture of set programme or video input. In this way, you can watch the picture of set programme or video input from any connected equipment while watching the main picture.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

- 3 Press the **ENTER** button.

- 4 Press the **▲** or **▼** button to select **PIP** and then press the **ENTER** button.

Result: The options available in the **PIP** menu are displayed.

- 5 Press the **ENTER** button again. Select **On** by pressing the **▲** or **▼** button and then press the **ENTER** button.

- 6 Press the **▲** or **▼** button to select **Source** and press the **ENTER** button. Select a source of the sub picture by pressing the **▲** or **▼** button and press the **ENTER** button.

Result: The sources are displayed in the following order:
When the main picture is set to TV/Ext. 1/Ext. 2/AV/S-Video/Component, only HDMI can be selected and when the main picture is set to PC/HDMI, TV/Ext. 1/Ext. 2/AV/S-Video/Component can be selected.

- 7 Press the **▲** or **▼** button to select **Swap**. To interchange the main picture and the sub picture, select **Swap** option and press the **ENTER** button.

Result: The main picture and the sub picture are interchanged.

➤ If main picture is in **PC** mode, **Swap** is not available.

- 8 Press the **▲** or **▼** button to select **Size** of the sub picture and then press the **ENTER** button. Select a size of the sub picture by pressing the **▲** or **▼** button and then press the **ENTER** button.

Result: The sizes are displayed in the following order:



Small - Medium - Large

➤ If main picture is in **PC** mode, **Size** is not available.

Viewing the Picture In Picture (PIP)

- 9 Press the ▲ or ▼ button to select **Position** and then press the **ENTER** button.
Select the position of the sub picture by pressing the ▲ or ▼ button and then press the **ENTER** button.

Result: You can move the sub picture.

➤ When the size of the sub picture is set to  or , this feature does not work.

- 10 Press the ▲ or ▼ button to select **Programme** and then press the **ENTER** button. You can select the channel that you want to view through sub picture by pressing the ▲ or ▼ button. Press the **ENTER** button.

Result: The memorized **Programme** is displayed.

➤ **Main: PC/HDMI, Sub: TV**
"Programme" is inactive and not available in TV mode.
However, it become active and available in PC/HDMI mode.

- 11 To return to normal viewing, press the **EXIT** button.

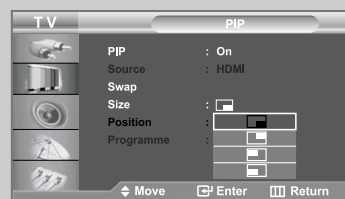
➤ **Remote-control functions while "PIP" is "On":**

Features	Description
PIP	Used to operate On/Off function of PIP directly.
SWAP	Used to interchange the main picture and the sub picture. ➤ When the main picture is in the video mode and the sub picture is in the TV mode, you might not hear the sound of the main picture when pressing the SWAP button after changing the sub picture channel. At this time, reselect the main picture channel.

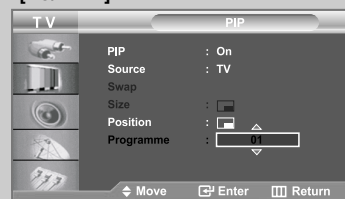
➤ PIP Settings

O : PIP operates
X : PIP doesn't operate

Main \ Sub	TV	DTV	Ext.1	Ext.2	AV	S-Video	Component	PC	HDMI
TV	X	X	X	X	X	X	X	X	O
DTV	X	X	X	X	X	X	X	X	X
Ext.1	X	X	X	X	X	X	X	X	O
Ext.2	X	X	X	X	X	X	X	X	O
AV	X	X	X	X	X	X	X	X	O
S-Video	X	X	X	X	X	X	X	X	O
Component	X	X	X	X	X	X	X	X	O
PC	O	X	O	O	O	O	O	X	X
HDMI	O	X	O	O	O	O	O	X	X



[PC/HDMI]



Adjusting the Volume



You can adjust the volume using your remote control.

Press the **+** button to increase the volume.

Result: A horizontal bar is displayed and the volume increases until you release the button. The cursor moves to the right to indicate the volume.

Press the **-** button to decrease the volume.



Result: A horizontal bar is displayed and the volume decreases until you release the button. The cursor moves to the left to indicate the volume.

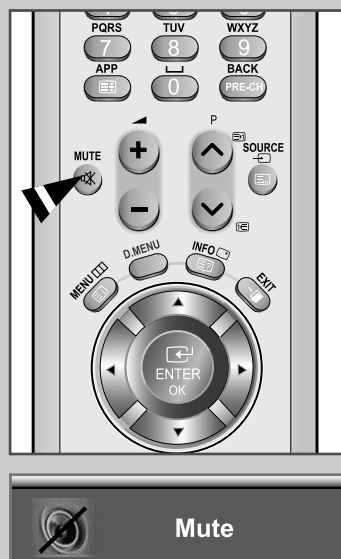
➤ Additional sound adjustments are available on your set.
For further details, refer to pages **37** to **43**.

Switching the Sound Off Temporarily

You can switch the sound off temporarily.

Example: You wish to answer the telephone.

- 1 Press the **MUTE**  button.
Result: The sound is switched off and **"Mute"** is displayed.
- 2 When you wish to turn the sound back on, press the **MUTE**  button again or either of the volume buttons.
Result: The sound comes back on as the same volume as before and the **"Mute"** indication disappears.

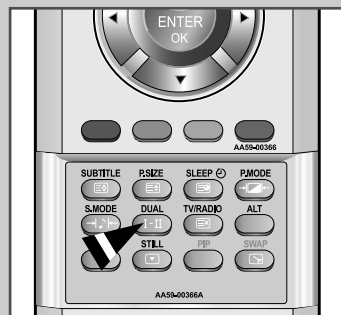


Selecting the Sound Mode

You can set the sound mode by pressing the **"DUAL"** button.

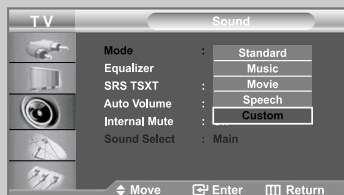
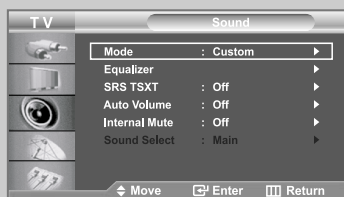
When you press it, the current sound mode is displayed on the screen.

	Audio Type	DUAL 1/2	Default
FM Stereo	Mono	MONO	Automatic change
	Stereo	STEREO ↔ MONO	
	Dual	DUAL 1 ↔ DUAL 2	DUAL 1
	Mono	MONO	Automatic change
NICAM Stereo	Stereo	MONO ↔ STEREO	
	Dual	<div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: right;">→</div> <div style="text-align: center;"> MONO ↔ DUAL 1 </div> <div style="text-align: left;">←</div> </div> <div style="text-align: center; margin-top: 5px;"> DUAL 2 </div>	DUAL 1



- ♦ If the receiving conditions deteriorate, listening will be easier if the mode is set to **Mono**.
- ♦ If the stereo signal is weak and automatic switching occurs, switch to **Mono**.

Changing the Sound Standard








You can select the type of the special sound effect to be used when watching a given broadcast.

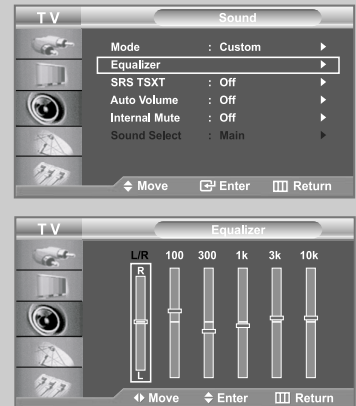
- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Sound**.
Result: The options available in the **Sound** group are displayed.
- 3 Press the **ENTER** button.
- 4 Press the **ENTER** button again.
Result: The **Mode** is selected.
- 5 Select the required sound effect by pressing the **▲** or **▼** button repeatedly and then press the **ENTER** button.
Result: The following sound effects are available:
Standard - Music - Movie - Speech - Custom
- 6 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

➤ You can also select these options by simply pressing the **S.MODE** (Sound Mode) button under the remote's cover.

Adjusting the Sound Settings

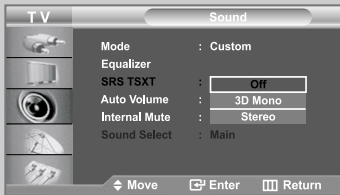
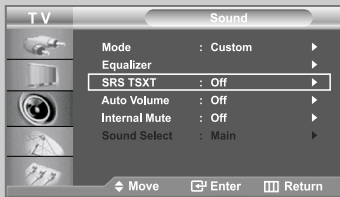
The sound settings can be adjusted to suit your personal preferences.

- 1 Press the **MENU**  button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Sound**.
Result: The options available in the **Sound** group are displayed.
- 3 Press the **ENTER**  button.
- 4 Select **Equalizer** by pressing the **▲** or **▼** button and then press the **ENTER**  button.
- 5 Select the required option by pressing the **◀** or **▶** button.
- 6 Press the **▲** or **▼** button to reach the required setting.
Press the **ENTER**  button.
- 7 When you are satisfied with the setting, press the **MENU**  button to return to the previous menu or press the **EXIT** button to return to normal viewing.



- If you make any changes to these settings, the Sound Mode is automatically switched to **Custom**.
- **◆ L/R Sound Balance Adjustment**
To adjust the sound balance of the L/R speakers.
- ◆ **Bandwidth Adjustment (100, 300, 1K, 3K, 10K)**
To adjust the level of different bandwidth frequencies.

Setting the TruSurround XT (SRS TSXT)



TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Sound**.

Result: The options available in the **Sound** group are displayed.



- 3 Press the **ENTER** button.

- 4 Press the **▲** or **▼** button to select **SRS TSXT** and then press the **ENTER** button.

- 5 Select the required option by pressing the **▲** or **▼** button. Press the **ENTER** button.

Result: The sources are displayed in the following order:
Off - 3D Mono - Stereo

- 6 Press the **EXIT** button to return to normal viewing.

SRS  TruSurround XT, SRS and  symbol are trademarks of SRS Labs, Inc. TruSurround XT technology is incorporated under license from SRS Labs, Inc.

Adjusting the Volume Automatically


Each broadcasting station has its own signal conditions, and so it is not easy for you to adjust the volume every time the channel is changed. This feature let you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

-
- 1 Press the **MENU**  button.

Result: The main menu is displayed.

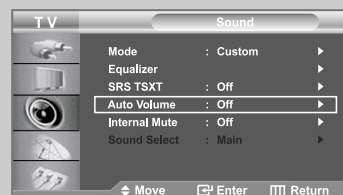
- 2 Press the **▲** or **▼** button to select **Sound**.
Press the **ENTER**  button.

Result: The options available in the **Sound** group are displayed.

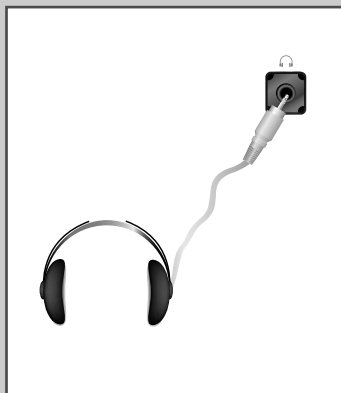
- 3 Press the **▲** or **▼** button to select **Auto Volume**.
Press the **ENTER**  button.
-

- 4 Press the **▲** or **▼** button to select **On**.
Press the **ENTER**  button.
-

- 5 Press the **EXIT** button to return to normal viewing.
-



Connecting Headphones



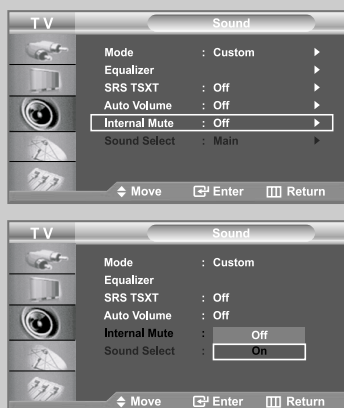
You can connect a set of headphones to your set if you wish to watch a TV programme without disturbing the other people in the room.

Plug a set of headphones into the 3.5mm mini-jack socket on the rear panel of the set.

Result: The sound is heard through the headphones.

- For further details on how to set your headphone preferences, refer to the section below.
- Prolonged use of headphones at a high volume may damage your hearing.
- You will not receive sound from the speakers when you connect headphones to the system.

Selecting the Internal Mute



If you want to hear the sound through separate speakers, cancel the internal amplifier.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Sound**.

Result: The options available in the **Sound** group are displayed.

- 3 Press the **ENTER** button.

- 4 Press the **▲** or **▼** button to select **Internal Mute**.
Press the **ENTER** button.





- 5 Press the **▲** or **▼** button to select **On**.
Press the **ENTER** button.

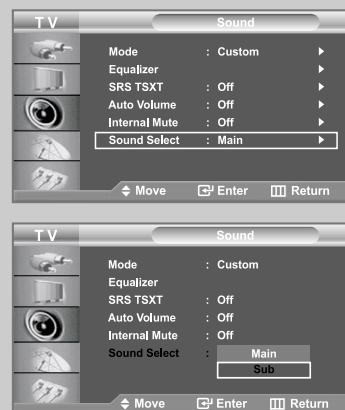
- 6 Press the **EXIT** button to return to normal viewing.

- When **Internal Mute** is set to **On**, the Sound menus except for **Sound Select** (in PIP mode) cannot be adjusted.

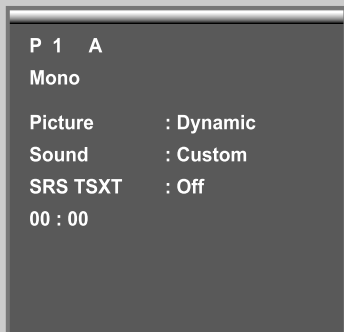
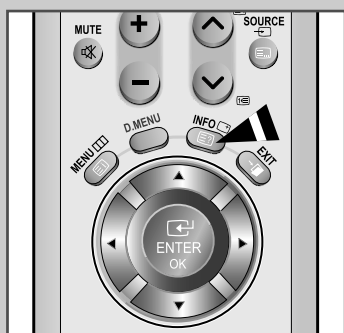
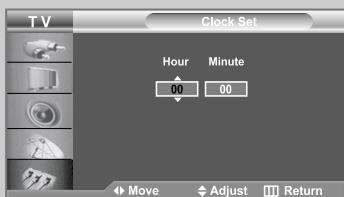
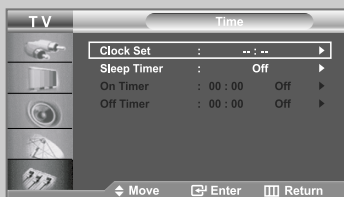
Listening to the Sound of the Sub Picture

During the PIP feature is activating, you can listen to the sound of the sub picture.

- 1 Press the **MENU**  button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Sound**.
Result: The options available in the **Sound** group are displayed.
- 3 Press the **ENTER**  button.
- 4 Press the **▲** or **▼** button to select **Sound Select** and then press the **ENTER**  button.
Result: **Main** and **Sub** are displayed.
➤ You can select this option when the **PIP** is in **On**.
- 5 Select the **Sub** by pressing the **▲** or **▼** button.
Press the **ENTER**  button.
Result: You can listen to the sound of the sub picture.
➤ To listen to the sound of the current main picture, set to **Main**.
- 6 Press the **EXIT** button to return to normal viewing.



Setting and Displaying the Current Time



*You can set the TV's clock so that the current time is displayed when you press the **INFO** button. You must also set the time if you wish to use the automatic On/Off timers.*

➤ If you disconnect the power cord, you have to set the clock again.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.
Press the **ENTER** button.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **▲** or **▼** button to select **Time**.
Press the **ENTER** button.
Result: The **Time** menu is displayed with **Clock Set** selected.
- 4 Press the **ENTER** button.
- 5

To...	Press the...
Move to Hour or Minute	◀ or ▶ button
Set the Hour or Minute	▲ or ▼ button

 Press the **ENTER** button.
- 6 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.
- 7

To display the...	Press the...
Current time and selected audio/video setting status	INFO button

➤ You can also set hour and minute by pressing the number buttons on the remote control.

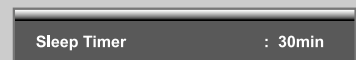
Setting the Sleep Timer

You can select a time period of between 30 and 180 minutes after which the television automatically switches to standby mode.

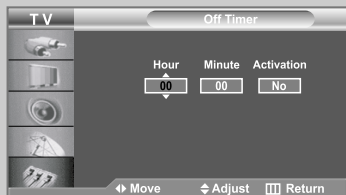
- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.
Press the **ENTER** button.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **▲** or **▼** button to select **Time**.
Press the **ENTER** button.
Result: The **Time** menu is displayed with **Clock Set** selected.
- 4 Press the **▲** or **▼** button to select **Sleep Timer**.
Press the **ENTER** button.
- 5 Press the **▲** or **▼** button repeatedly and cycle through the preset time intervals (Off, 30, 60, 90, 120, 150, 180).
Press the **ENTER** button.
Result: The TV automatically switches to standby mode when the timer reaches 0.
- 6 To cancel the sleep timer function, select **Off** by pressing the **▲** or **▼** button and then press the **ENTER** button.
- 7 Press the **EXIT** button to return to normal viewing.

You can set the sleep timer by simply pressing the **SLEEP** button on the remote control.

- 1 Press the **SLEEP** button under the remote's cover.
Result: If the sleep timer is not yet set, **Off** is displayed.
Otherwise, the remaining time before which the television switches to standby mode is displayed.
- 2 Select the preset time interval for staying on by pressing the **SLEEP** button repeatedly.



Switching the Television On and Off Automatically



You can set the On/Off timers so that the set will:

- ◆ Switch on automatically and tune to the channel of your choice at the time you select.
- ◆ Switch off automatically at the time you select.

➤ The first step is to set the television's clock (refer to "Setting and Displaying the Current Time" on page 42).

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Setup**. Press the **ENTER** button.

Result: The options available in the **Setup** group are displayed.

- 3 Press the **▲** or **▼** button to select **Time**. Press the **ENTER** button.

Result: The **Time** menu is displayed with **Clock Set** selected.

- 4 Press the **▲** or **▼** button to select **On Timer**. Press the **ENTER** button.

Result: The **On Timer** menu is displayed.

- 5 Set the time, channel and volume level at which you wish the set to be switched on.

To...	Press the...
Move to Hour , Minute , Programme , and Volume	◀ or ▶ button
Set Hour , Minute , Programme , and Volume	▲ or ▼ button
Move to Activation	◀ or ▶ button
Select Yes to enable above setting	▲ or ▼ button

Press the **ENTER** button.

- 6 Press the **▲** or **▼** button to select **Off Timer**. In the same way, set the time at which you wish the set to be switched off automatically.










- 7 Press the **EXIT** button to return to normal viewing.

➤ You can also set hour and minute by pressing the number buttons on the remote control.

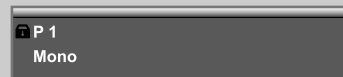
Activating the Child Lock

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio. Child Lock cannot be released using the buttons on the lower-right side panel. Only the remote control can release the Child Lock setting, so keep the remote control away from children.

➤ This function does not work in PC mode or DTV mode.

- 1 Press the **MENU**  button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.
Press the **ENTER**  button.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **▲** or **▼** button to select **Child Lock**.
Press the **ENTER**  button.
Result: The options available in the **Child Lock** group are displayed.
- 4 Press the **ENTER**  button again.
Result: The **Child Lock** is selected.
- 5 Press the **▲** or **▼** button to select **On**.
Press the **ENTER**  button.
- 6 Press the **▲** or **▼** button to select **Programme**.
Press the **ENTER**  button.
- 7 Press the **▲** or **▼** button to select the channels to lock.
Press the **ENTER**  button.
- 8 Press the **▲** or **▼** button to select **Lock**.
Press the **ENTER**  button.
- 9 Press the **▲** or **▼** button to select **Locked** to lock the channels.
Press the **ENTER**  button.
- 10 Repeat steps 6 and 9 for each channel to be locked or unlocked.
- 11 Press the **EXIT** button to return to normal viewing.

➤ A blue screen is displayed when the **Child Lock** is activated.



Setting the Blue Screen Mode



If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background.

If you wish to continue viewing the poor picture, you must set the "Blue Screen" mode to "Off".

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Setup**.
Press the **ENTER** button.

Result: The options available in the **Setup** group are displayed.

- 3 Press the **▲** or **▼** button to select **Blue Screen**.
Press the **ENTER** button.

- 4 Press the **▲** or **▼** button to select **On**.
Press the **ENTER** button.

- 5 Press the **EXIT** button to return to normal viewing.

Selecting the Melody



You can hear melody sound when the television is powered on or off.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Setup**.
Press the **ENTER** button.

Result: The options available in the **Setup** group are displayed.

- 3 Press the **▲** or **▼** button to select **Melody**.
Press the **ENTER** button.

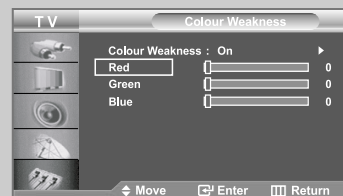
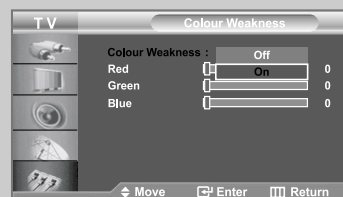
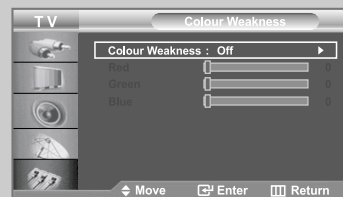
- 4 Press the **▲** or **▼** button to select **On**.
Press the **ENTER** button.

- 5 Press the **EXIT** button to return to normal viewing.

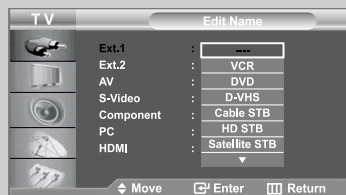
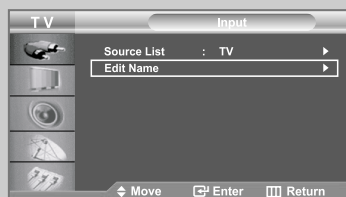
Colour Weakness

Colour Weakness is a feature that enables those with a Colour Weakness to view images as those with normal colour vision do. The feature provides nine different colour adjustment layers each for red, green and blue.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.
Press the **ENTER** button.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **▲** or **▼** button to select **Colour Weakness**.
Press the **ENTER** button.
- 4 Press the **ENTER** button.
Press the **▲** or **▼** button to select **On**.
- 5 Press the **ENTER** button.
Press the **▲** or **▼** button to select **Red**, **Green** and **Blue**.
Press the **ENTER** button.
- 6 Press the **◀** or **▶** button to adjust the **Colour Weakness**.
- 7 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.



Selecting a Device from External Sources



Your set enables you to choose which audio/video signals are output to the external connector.

- 1 Press the **MENU** button.
Press the **ENTER** button to select **Input**.
Result: The options available in the **Input** group are displayed.
- 2 Press the **ENTER** button.
Result: The options available in the **Source List** menu are displayed.
➤ When no external device is connected to your set, only **TV**, **DTV**, **Ext.1**, **Ext.2** are activated in the **Source List**. **AV**, **S-Video**, **Component**, **PC**, **HDMI** are activated only when they are connected to your set.
- 3 Select the required device by pressing the **▲** or **▼** button.
Press the **ENTER** button.
- 4 Repeat step 1.
Press the **▲** or **▼** button to select **Edit Name**.
Press the **ENTER** button.
Result: The options available in the **Edit Name** menu are displayed.
- 5 Select the device that you wish to edit by pressing the **▲** or **▼** button.
Result: The following options are available:
Ext.1 - Ext.2 - AV - S-Video - Component - PC - HDMI
- 6 Press the **ENTER** button.
- 7 Select the required device by pressing the **▲** or **▼** button repeatedly.
Press the **ENTER** button.
Result: The following options are available:
---- - VCR - DVD - D-VHS - Cable STB - HD STB - Satellite STB - AV Receiver - DVD Receiver - Game - Camcorder - DVD Combo - DHR - PC
- 8 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.



➤ DHR: DVD HDD Recorder

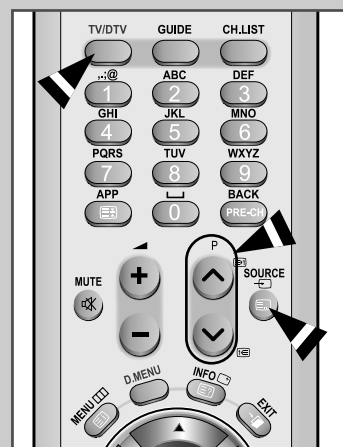
Viewing Pictures from External Sources

Once you have connected up your various audio and video systems, you can view the different sources by selecting the appropriate input.

- 1 Check that all the necessary connections have been made.
- 2 Press the **SOURCE** button.
Result: The edited device and audio status are displayed on top-left of the set.
- 3 Press the **SOURCE** button until the required input source is selected.

➤ If you change the external source while viewing, pictures might take a short period of time to be switched.

➤ **TV/DTV** mode can be selected by pressing the **TV/DTV** or  /  button on the remote control but you cannot select it by pressing the **SOURCE** button.

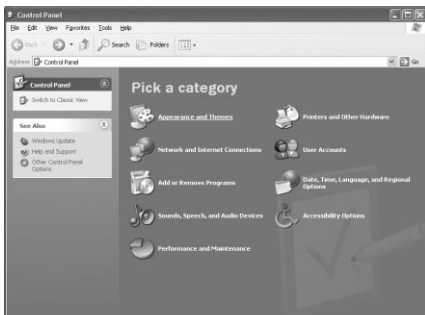


Setting up Your PC Software (Based on Windows XP)

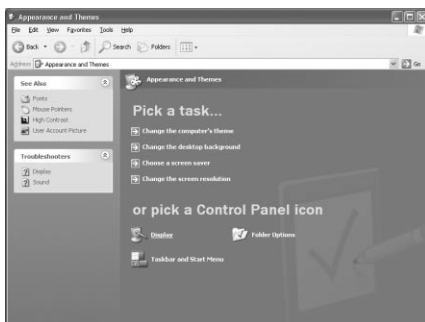
The Windows display-settings for a typical computer are shown below. But the actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. But even if your actual screen look different, the same, basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)



- 1 First, click on “**Control Panel**” on the Windows start menu.



- 2 When the control panel window appears, click on “**Appearance and Themes**” and a display dialog-box will appear.



- 3 When the control panel window appears, click on “**Display**” and a display dialog-box will appear.



- 4 Navigate to the “**Settings**” tab on the display dialog-box.

The correct size setting (resolution)

Optimum- 1360 x 768

If a vertical-frequency option exists on your display settings dialog box, the correct value is “**60**” or “**60 Hz**”. Otherwise, just click “**OK**” and exit the dialog box.

*See “Display Modes” on page 79.

Adjusting the PC Screen Automatically

Auto adjustment allows the PC screen of set to self-adjust to the incoming PC video signal.

The values of fine, coarse and position are adjusted automatically.

➤ After selecting **PC** mode, follow the instruction.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Setup**.
Press the **ENTER** button.

Result: The options available in the **Setup** group are displayed.

- 3 Press the **▲** or **▼** button to select **PC**.
Press the **ENTER** button.

Result: The options available in the **PC** menu are displayed.

- 4 Press the **▲** or **▼** button to select **Auto Adjustment**.
Press the **ENTER** button.

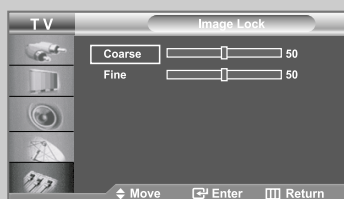
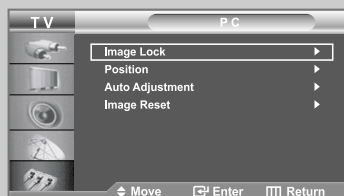
Result: The screen quality and position are automatically adjusted.

- 5 When you are satisfied with your choice, press the **EXIT** button to return to normal viewing.



Auto Adjustment In Progress.
Please wait.

Coarse and Fine Tuning of the Image



The purpose of picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (coarse) and Fine-tune again. After the noise has been reduced, re-adjust the picture so that it is aligned on the center of screen.

➤ After selecting **PC** mode, follow the instruction.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the ▲ or ▼ button to select **Setup**.
Press the **ENTER** button.

Result: The options available in the **Setup** group are displayed.

- 3 Press the ▲ or ▼ button to select **PC**.
Press the **ENTER** button.

Result: The options available in the **PC** menu are displayed.

- 4 Press the **ENTER** button again.

Result: The **Image Lock** menu is selected.

- 5 Press the ▲ or ▼ button to select **Coarse** or **Fine**.
Press the **ENTER** button.

Result: The horizontal bar is displayed.

- 6 Press the ◀ or ▶ button to adjust the screen quality.
Press the **ENTER** button.

➤ Vertical stripes may appear or the picture may become blurry.

- 7 When you are satisfied with the settings, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

Changing the Image Position

➤ After selecting **PC** mode, follow the instruction.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Setup**.
Press the **ENTER** button.

Result: The options available in the **Setup** group are displayed.

- 3 Press the **▲** or **▼** button to select **PC**.
Press the **ENTER** button.

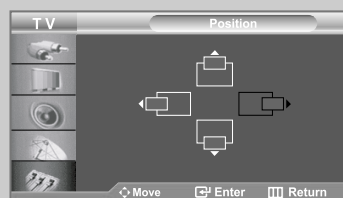
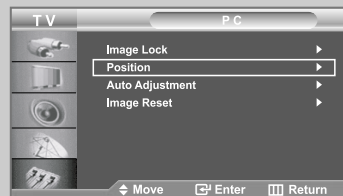
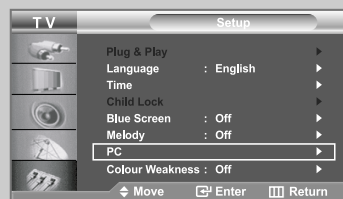
Result: The options available in the **PC** menu are displayed.

- 4 Press the **▲** or **▼** button to select **Position**.
Press the **ENTER** button.

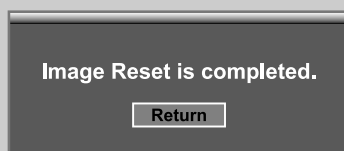
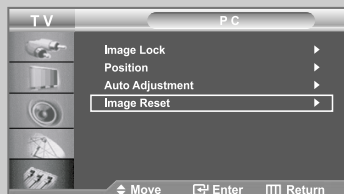
Result: You can adjust the image **Position**.

- 5 Press the **◀** or **▶** button to adjust horizontal position.
Press the **▲** or **▼** button to adjust vertical position.
Press the **ENTER** button.

- 6 Press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.



Initializing the Image Settings



You can replace all image settings with the factory default values.

➤ Press the **PC** button on the remote control to select the PC mode.

-
- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Setup**.
Press the **ENTER** button.

Result: The options available in the **Setup** group are displayed.

- 3 Press the **▲** or **▼** button to select **PC**.
Press the **ENTER** button.

Result: The options available in the **PC** menu are displayed.

- 4 Press the **▲** or **▼** button to select **Image Reset**.
Press the **ENTER** button.

Result: You can initialize all image setting to the factory default values.

- 5 Press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.
-

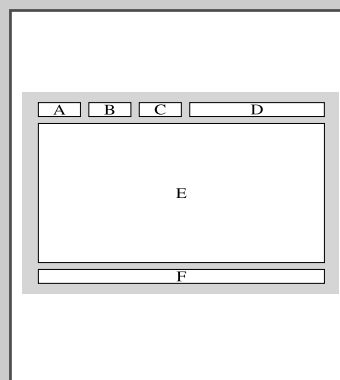
Teletext Decoder

Most set channels carry “ teletext ”, pages of written information that provide information such as:

- ◆ Television programme times.
- ◆ News bulletins and Weather forecasts.
- ◆ Sports results.
- ◆ Subtitles for the hard of hearing.

The teletext pages are organized according to six categories:

Part	Contents
A	Selected page number.
B	Broadcasting station identity.
C	Current page number or search status.
D	Date and time.
E	Text.
F	Status information.



Displaying the Teletext Information

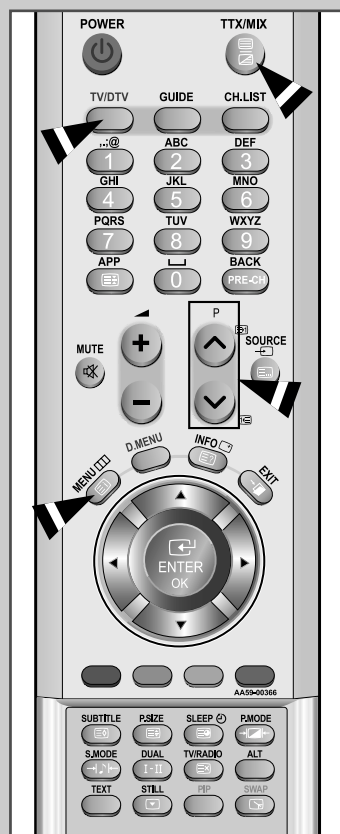
You can display teletext information at any time, but signal reception must be good. Otherwise:

- ◆ Information may be missing.
- ◆ Some pages may not be displayed.

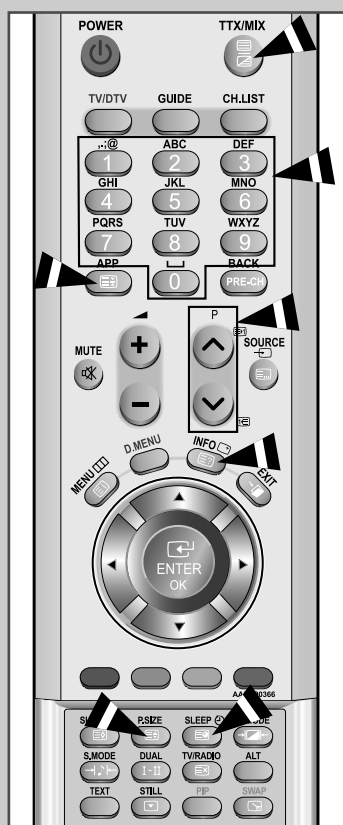
To activate the teletext mode and display the contents page:

- 1 Using the () or () button, select the channel providing the teletext service.
- 2 Press the **TTX/MIX** () button to activate the teletext mode.
Result: The contents page is displayed. It can be redisplayed at any time by pressing the **MENU** () button.
- 3 Press the **TTX/MIX** () button again.
Result: The screen will split into two. This Double Teletext feature lets you view the actual broadcast and teletext information separately on the screen.
- 4 Press the **TTX/MIX** () button again.
Result: The actual broadcast will be displayed simultaneously with the teletext page on the screen.
- 5 To return to normal viewing, press the **TTX/MIX** () button.
- 6 Press the **TV/DTV** button again to exit from the Text display.

- If any broken character appears while Text is being viewed, make sure that the Text language is identical with the language in the “Setup” menu mode. If both languages are different, select the same language with the Text language on the “Setup” menu.



Selecting a Specific Teletext Page



Press the number buttons on the remote control to enter the page number directly:

- 1 Enter the three-digit page number listed in the contents by pressing the corresponding numeric buttons.

Result: The current page counter is incremented and the page is then displayed.

- 2 If the selected page is linked with several secondary pages, the secondary pages are displayed in sequence. To freeze the display on a given page, press the **APP** (⏏) button. Press the **APP** (⏏) button again to resume.

- 3 Using the various display options:

To display...	Press the...
◆ Both teletext information and the normal broadcast	TTX/MIX (⏏/⏏)
◆ Hidden text (answers to quiz games, for example)	INFO (⏏)
◆ The normal screen	INFO (⏏)
◆ A secondary page, by entering its 4-digit number	SLEEP (⏏)
◆ The next page	P (⏏) (⏏)
◆ The previous page	P (⏏) (⏏)
◆ Double-size letters in the: <ul style="list-style-type: none"> • Upper half of the screen • Lower half of the screen 	P.SIZE (⏏) <ul style="list-style-type: none"> • Once • Twice
◆ Normal screen	• Three times

Using Fastext to Select a Teletext Page

The various topics included in the teletext pages are colour-coded, and can be selected by pressing the coloured buttons on the remote control.

- 1 Display the teletext contents page by pressing the **TTX/MIX** (≡/≡) button.
- 2 Press the coloured button corresponding to the topic that you wish to select (The available topics are listed on the status information line).

Result: The page is displayed with additional colour-coded information that can be selected in the same way.

- | 3 To display the: | Press the: |
|-------------------|---------------|
| Previous page | Red button. |
| Next page | Green button. |
- 4 When you have finished, press the **TV/DTV** button to return to the normal broadcast.



Storing Teletext Pages

You can store up to four teletext pages to display them later at leisure.

- 1 Select the LIST mode using the **SOURCE** (≡) button.
Result: Four 3-digit numbers are displayed in different colours.
➤ The **SOURCE** (≡) button is used to switch between the LIST and FLOF modes.
- 2 Press the coloured button corresponding to the page that will be replaced.
- 3 Enter the new page number using the numeric buttons.
- 4 Repeat steps 2 and 3 for each page to be stored, using a different coloured button each time.
- 5 Press the **SUBTITLE** (≡) button until the corresponding blocks blink.

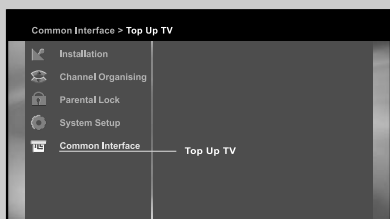
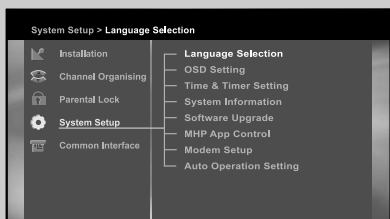
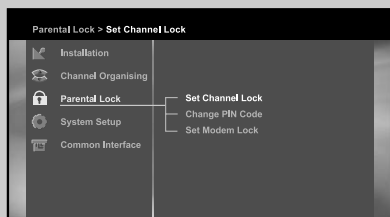
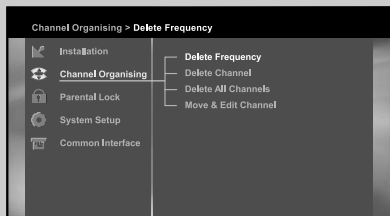
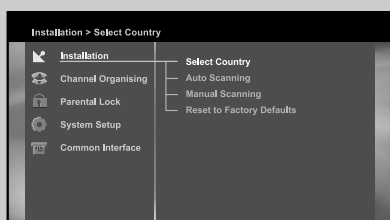


Previewing the DTV Menu System

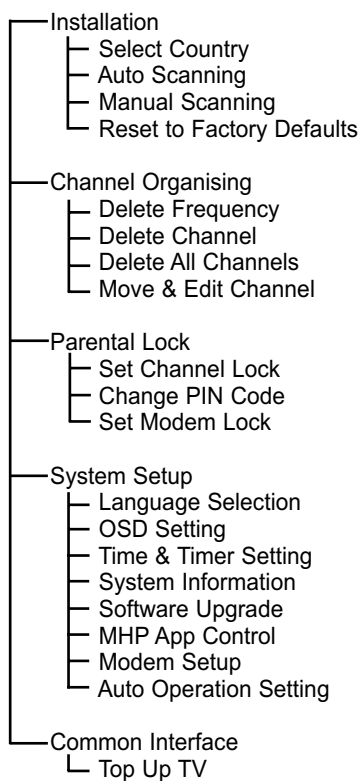


To help you navigate around the on-screen menu system and adjust the various settings available, refer to the following illustration.

➤ Available in the Digital TV mode.



Press the **"D.MENU"** button.

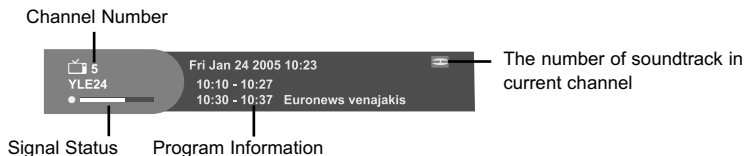


➤ The sub-items of the CI Menu may vary depending on the CAM model.

Basic Functions

1. Display Screen

Before you can view the television program, you must perform the installation. Therefore you will see only menu images at first. After the television channels have been programmed, you will see the following picture (banner) each time you switch channels:

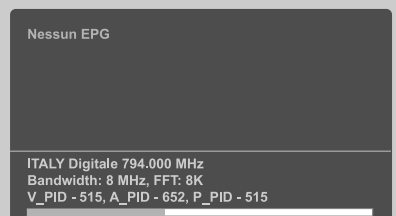


Detailed program information

First you will see the banner described above.

After pressing the **INFO** button a second time you will receive detailed program information for current program can be displayed on another banner, if there is more information. When this information is more than one page, **P** ^ / v can be used for page up and down.

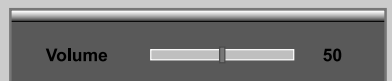
➤ This service depends on service provider.



2. Volume Control

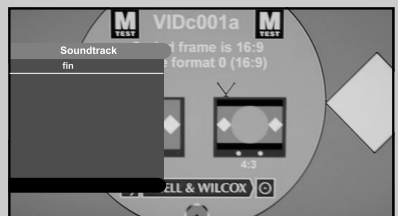
To control the volume level :

- Press the - ◀ + buttons to adjust the volume level.
- Press the **MUTE** button to turn to silence mode.
- Press the **MUTE** button again or - ◀ + buttons in order to cancel the mute function.



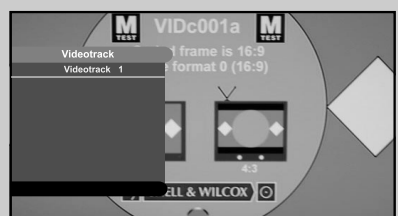
3. Select Soundtrack

- Press the **ALT** button to see the soundtrack list.
- Press the ▲/▼ and **ENTER/OK** buttons to select one.



4. Select Videotrack

- Press the **ALT** button twice to see the videotrack list.
- Press the ▲/▼ and **ENTER/OK** buttons to select one.






Basic Functions



5. Service List

- Press the **CH.LIST** button while you are viewing a program.
- Select list by pressing the **TV/RADIO** button.

The icon  behind the channel name symbolizes scrambled channel, and the icon  behind the channel name symbolizes parental locked channel.

- Select the channel by pressing the **▲/▼** and press the **P ▲/▼** for moving up or down pages on the lists.
- Press the **ENTER/OK**  button to watch that channel.

6. Program Information

EPG-Electronic Program Guide

The electronic program guide gives you a channel list for the channels.

- 1. This service depends on service provider.
- 2. After receiver recognized the GMT-time from the signal which takes few seconds, it can display correct EPG information.

- Press the **GUIDE** button while you are viewing a program.


This function is displayed on the screen by using only time.

- **RED** button : Red button is for moving back to the previous date.
- **GREEN** button : Green button is for moving to the next coming date.
- **INFO** button : This button is used to watch the program information, if there is more information than one page.
Use the **P ▲/▼** buttons to move up and down pages.
- **◀/▶** button : Use to display the program list by 30 minutes per block.

Time interval can be adjusted by press buttons as followings on EPG screen:

1 button: 1 hour and 30 minutes **2 button:** 30 minutes

3 button: 15 minutes

- Select the channel by pressing the **▲/▼** buttons and press the **ENTER/OK**  button to watch this channel.

Operating the DTV Menu

Main Menu

After installing your antenna system and TV with appropriate connectors.

- Plug in the AC main power and switch on the TV.
- Press the **D.MENU** button to bring up the main menu.

The following on screen display will appear:

The sub menu topics will be displayed. For the sub-menus **Installation**, **Channel Organization** and **Parental Lock**, you need the PIN Code.

1. Installation

This menu consists of 4 sub-menus:

Select Country, Auto Scanning, Manual Scanning and Reset to Factory Defaults.

- Select **Installation** by pressing the **ENTER/OK** button in the main menu mode to select the sub menu.
 - Enter the **PIN** Code.
- If you have not entered your own **PIN** Code then the **PIN** Code **0000** applies, which was set at the factory.
- Once you have entered **PIN** Code, you do not have to input the code again unless you turn the TV power off.

1.1 Select Country

To tune-in new channels, the TV has been provided with the option “**Select Country**”. Select the country where broadcasting services are provided. After selecting the “**Select Country**” from the Installation Menu, the following screen will be displayed:

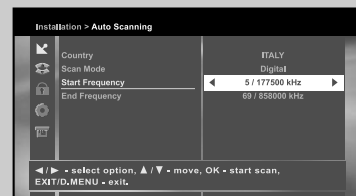
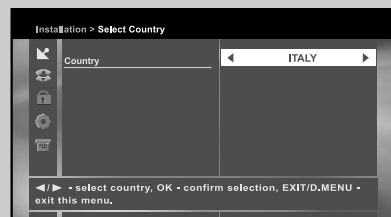
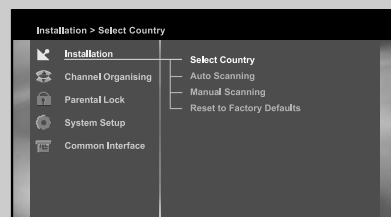
- Select the country which you are in.
You can select the value of **ITALY**, **SPAIN**, **SWEDEN**, **UK**, **USER**, **BELGIUM**, **GERMANY**, **FINLAND**, or **FRANCE** by using ◀/▶ button.
 - After select option, press the **ENTER/OK** button to choose the nation of broadcasting area to be served. If you don't want to save the changed, press **EXIT** button without **ENTER/OK** button pressed.
- If national code is changed, all of saved programs will be deleted.
- **USER**: An user may set Channel Number and Frequency in Auto/Manual scanning.

1.2 Auto Scanning

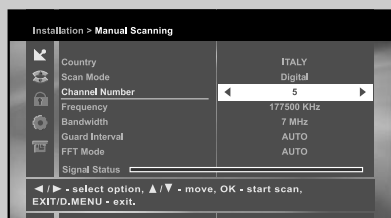
The sub menu “**Auto Scanning**” will enable download of the channels automatically from the preprogrammed load.

To download channels automatically:

- You can select the specified frequency between **Start Frequency** and **End Frequency**.
 - Press the **ENTER/OK** button.
- Auto Scanning menu will be displayed. All the channels in the list will be automatically downloaded.



Operating the DTV Menu



1.3 Manual Scanning

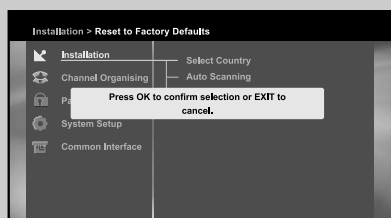
To tune-in new channels and weak signals, the TV has been provided with the option “**Manual Scanning**” where the channel data can be entered by the user.

After selecting the “**Manual Scanning**” from the Installation Menu, the following screen will be displayed:

- Select the Channel Number.
You can select the specified channel you want to find.

The followings are defined as a default, but optionally you can choose it. Signal Status bar shows you if it is valid.

- Input the frequency of the channel you want to find.
- Select the bandwidth. You can select the value of **6**, **7** or **8** MHz.
- Select the Guard Interval Mode.
You can select the value of **AUTO**, **1/32**, **1/16**, **1/8**, or **1/4**.
- Select the FFT (Fast Fourier Transform) Mode.
One of the values-**AUTO**, **2K**, and **8K**- will be selected automatically.
You may change the set value as your preference.
- After select option, press the **ENTER/OK** button to start the scanning process.

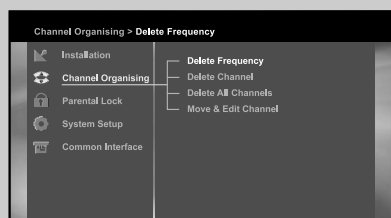


1.4 Reset to Factory Defaults

This is to restore the factory set values in case the user has encountered some problems after changing any values of channel data and others which may be in error.

At the request window, if you press the **ENTER/OK** button, the TV will be reset to factory default settings automatically.

➤ This causes your previous settings to be deleted!



2. Channel Organising

The “**Channel Organising**” menu has four functions:

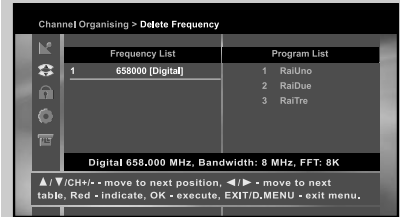
The “**Channel Organising**” menu is used to delete the Frequencies and Channels or move&edit channel as you want.

- Enter the **PIN** Code.
If you have not entered your own **PIN** Code **0000** applies, which was set at the factory.
- Once you have entered **PIN** Code, you do not have to input the code again unless you turn the TV power off.

Operating the DTV Menu

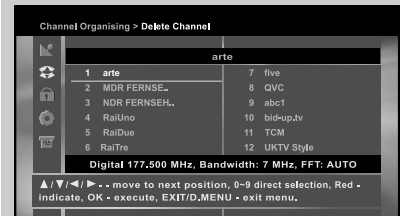
2.1 Delete Frequency

- Select the desired frequency list you want to delete by pressing the **RED** button.
- Press the **ENTER/OK** button for confirmation.
- This feature doesn't delete frequency itself but deletes the list of channels registered for frequency.



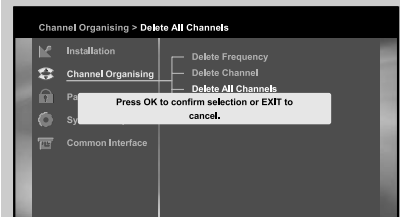
2.2 Delete Channel

- Select the desired channel you want to delete by pressing the **RED** button.
- Press the **ENTER/OK** button for confirmation.



2.3 Delete All Channels

At the request window, press the **ENTER/OK** button to delete all channels and press the **EXIT** button to exit.



2.4 Move & Edit Channel

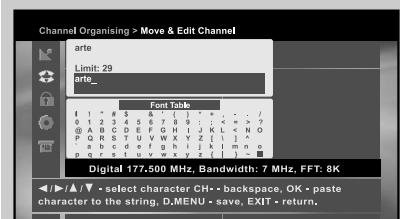
To move the Channel Name

- Select the TV/RADIO/Interactive list with ◀/▶ buttons.
- Select the TV/RADIO/Interactive list with ▲/▼ or P ^/ v buttons.
- Select channel by pressing the **RED** button.
- Press the ▲/▼ buttons to change the position of the channel you want, and P ^/ v for moving up or down pages on list. Press the **ENTER/OK** button for confirmation.
- If you want to return the channel to the initial position, do not press the **ENTER/OK** button but press the **BLUE** button.

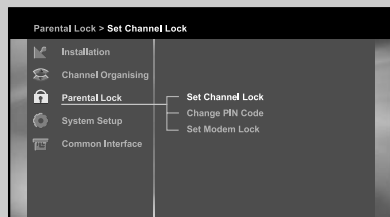


To edit Channel Name

- Select the TV/RADIO/Interactive list with ◀/▶ buttons.
- Select a channel list to move to other location with ▲/▼ or P ^/ v buttons.
- Press the **GREEN** button. Font Table will be displayed.
- Select desired character with ◀/▶, ▲/▼ and then press the **ENTER/OK** button to paste character to the string.
- P v button : Backspace for deleting previous character.
- Press the **D.MENU** button and then press the **ENTER/OK** button to save the set data.



Operating the DTV Menu



3. Parental Lock

This “**Parental Lock**” feature sets viewing restrictions and prevents unauthorized access to your TV through the PIN (Personal Identification Number), which is a 4 digit number. (The factory preset PIN Code : **0000**)

On selecting this menu, you will have three options: to set lock for any desired channel and to change your PIN Code and to Set Modem Lock.

- Enter the **PIN** Code.

If you have not entered your own PIN Code then the PIN Code 0000 applies, which was set at the factory.

3.1 Set Channel Lock

- Select the channel by pressing the ◀/▶ or ▲/▼ buttons.
- Select the channel lock by pressing the **RED** button.
- Press the **ENTER/OK** button for confirmation.

Whenever you need to view the locked channel, you will have to enter the PIN Code at the request window. After entering PIN Code to able to access a parental locked channel, it will work on all parental locked channels. It means that you can access all parental locked channels with entering PIN Code on any parental locked channel successfully.

To cancel the lock :

- Press the **RED** button again in order to cancel the lock.

3.2 Change PIN Code

To change the PIN Code, select the second option “**Change PIN Code**”.

This will take you to the following menu:

In this option, you need to enter the current PIN Code at the first cursor, and at the second cursor enter the desired PIN Code. To confirm, you need to enter the new PIN Code again.

Please remember the PIN Code should be a 4 digit numerical value.

THE FACTORY PRESET PIN CODE : **0 0 0 0**.

- If you forget the PIN Code, contact your dealer or service provider. Once you change password, please do not forget and keep well.

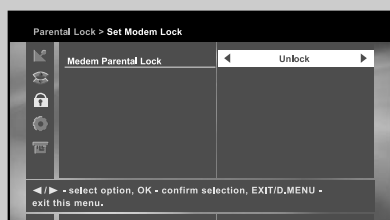
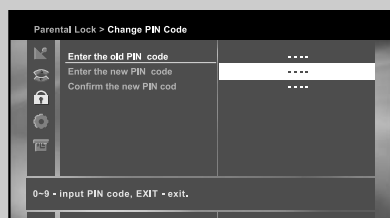
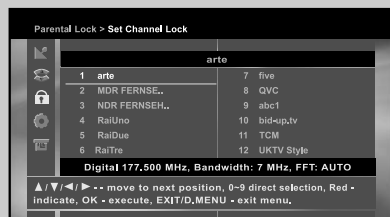
3.3 Set Modem Lock

To block watching the paid-service, e.g. PPV(Pay Per View) service, select the third option, “**Set Modem Lock**”.

You can select **Lock** or **Unlock** in Modem Parental Lock Menu.

- Select **Lock**, this will make you block to watch paid-service.
- Select **Unlock**, this will make you free to watch paid-service.

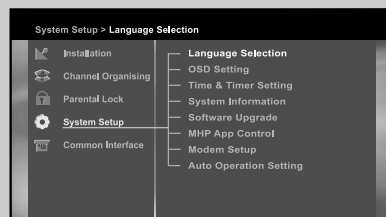
- Pay Per View TV is available only by using CI after purchasing CAM.



Operating the DTV Menu

4. System Setup

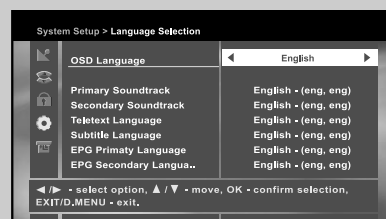
This option enables you to change the factory preset system settings as per your requirements.



4.1 Language Selection

The “**Language Selection**” option allows the user to select the desired language of the OSD, Soundtrack, Teletext, and EPG.

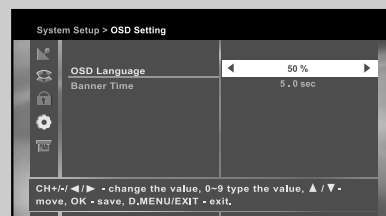
- To accommodate user from different regions speaking different languages, OSD languages are available 5 languages. (English, Deutsch, Français, Italiano, and Español provided currently)
- To select the desired language menu, press the ◀/▶ buttons to change language and press the **ENTER/OK** button.
- The OSD, Soundtrack, Teletext, or EPG language will vary according to the selected language.



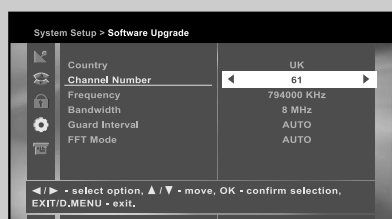
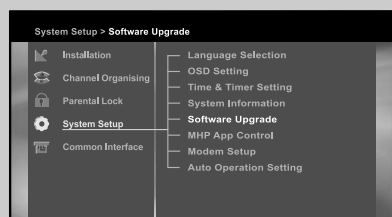
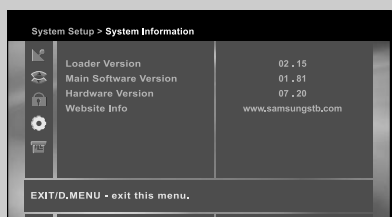
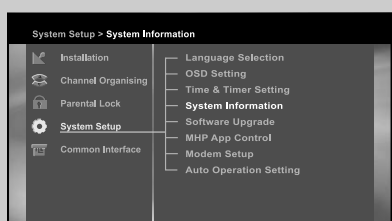
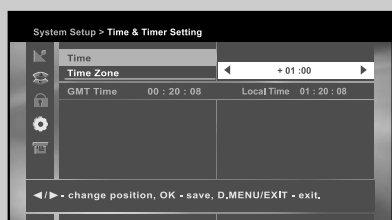
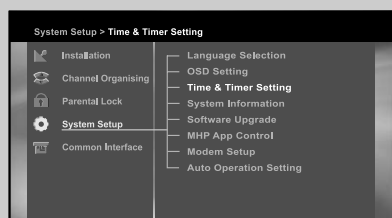
4.2 OSD Setting

You can set the OSD transparency and the display (banner) time.

- Select OSD Transparency level.
The OSD Transparency level from 0 to 100%. Setting is made with the numeric buttons, ◀/▶ buttons or **P ▲/▼** buttons.
- Set the display duration of the information(banner) box displayed in the screen. The time ranges from 0.5 to 60.0 seconds. Setting is made with the numeric buttons, ◀/▶ buttons to be decrement/increment of 0.5sec and **P ▲/▼** buttons 1sec.



Operating the DTV Menu



4.3 Time & Timer Setting

Various time modes can be set, such as current local time. The exact local present time can be adjusted by using the GMT.

- Place the cursor on this sub menu and press the **ENTER/OK** button.
- Press the **◀/▶** buttons to change the Local time in Time Zone. The local time will be changed according to your location.

GMT is referred to the standard time of Greenwich.

4.4 System Information

If you have to contact your service provider or a service center they might ask for information available from this menu. Place the cursor on this sub menu and press the **ENTER/OK** button. The following will be the on-screen display.

4.5 Software Upgrade

You can download and upgrade the system software of the TV through a specific channel through a specific channel designated by the broadcaster. The Broadcaster will provide you with more information about that. If you select to download a new software version, all your previous settings, access code and favorite channels etc. will be erased! Downloading may take a While 'During downloading' don't turn off the TV.

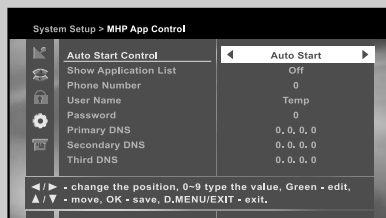
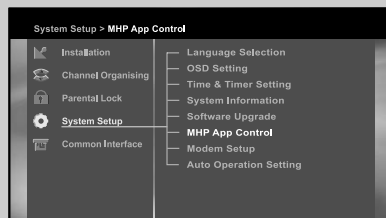
Operating the DTV Menu

4.6 MHP Application Control

If you want to change the display mode of MHP application, please follow the instruction below.

- Select **Auto Start** or **Not Allowed** in Auto Start Control mode with the ◀/▶ buttons.
- Select On/Off in show Application List mode with the ◀/▶ buttons.
- Press the **GREEN** button to edit contents in Phone Number, User Name and Password.
- Insert value by the **Numerical (0~9)** and ◀/▶ buttons in DNS.
- Press '**ENTER/OK**' to save **MHP App Control**.

- **Exit** without **ENTER/OK** button makes MHP App Control unchanged.
- MHP App: Multimedia Home Platform Application

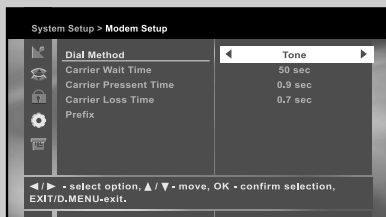
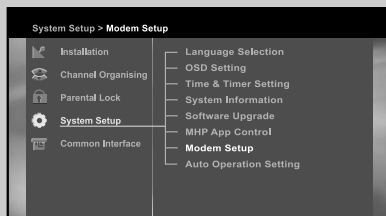


4.7 Modem Setup

If you want to setup Modem, please follow the instruction below.

- Select **Tone** or **Pulse** in Dial Method.
- Select the '**Carrier Wait Time**' ranged in 1~255 seconds with the ◀/▶ buttons or numeric buttons.
- Select the '**Carrier Present Time**' ranged in 0.1~25.5 seconds with the ◀/▶ buttons or numeric buttons.
- Select the '**Carrier Loss Time**' ranged in 0.1~25.5 seconds with the ◀/▶ buttons or numeric buttons.
- Select Blank, 0, # or 9 in **Prefix** by using ◀/▶ buttons, to specify your pre-dialing button for phone extension.
- Press '**ENTER/OK**' to save Modem configuration if modified.

- **Exit** without **ENTER/OK** button makes Modem Setup unchanged.

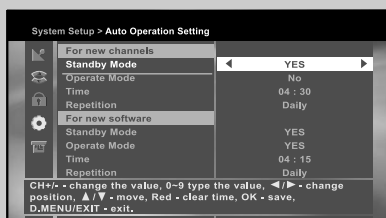
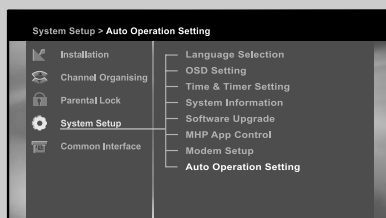


4.8 Auto Operation Setting

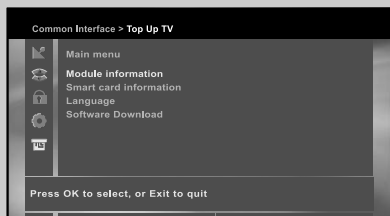
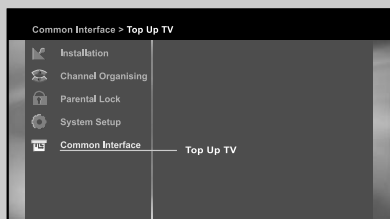
You can set the parameters for searching new channels and upgrading new software.

- Select YES or NO in Standby Mode and Operate Mode by using ◀/▶ buttons.
- Insert the preferable time by the **Numerical (0~9)**, **P** ^/ v and ◀/▶ buttons.
- Press the ◀/▶ buttons to choose Repetition you want to reserve: Daily, Every Sunday, Every Monday, Every Tuesday, Every Wednesday, Every Thursday, Every Friday and Every Saturday.

- If YES in Standby Mode (with selecting NO in Operate Mode or Aborting the operation in progress in Operate Mode), the TV automatically starts auto operation in Standby Mode after 45 minutes for new software and 1 hour for new channels from entering the standby mode.



Operating the DTV Menu



5. Common Interface

This contains information on CAM inserted in the CI slot and displays it.

- Press the **D.MENU** button.

Result: The DTV menu is displayed.

- Press the **▲/▼** button to select **Common Interface**.
Press the **ENTER** button.

- Press the **ENTER** button to display the information for your application.

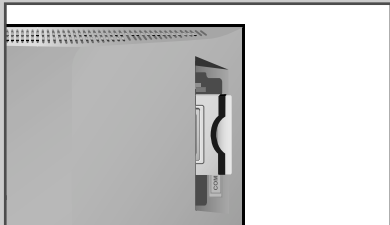
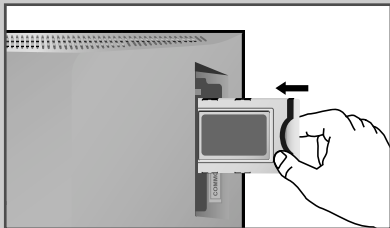
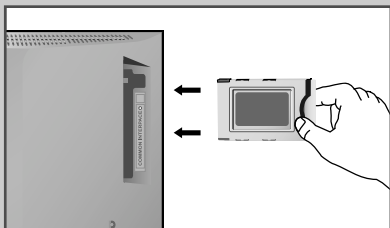
➤ The Application Info inserting is about the CI card.

➤ You can install the CAM anytime whether the TV is ON or OFF.

1. Purchase the CI CAM module by visiting your nearest dealer or by phone.
2. Insert the CI card into the CAM in the direction of the arrow until it fits.
3. Insert the CAM with the CI card installed into the common interface slot.



Note: Insert the CAM in the direction of the arrow, right up to the end so that it is parallel with the slot.

4. Check if you can see a picture on a scrambled signal channel.



Troubleshooting: Before Contacting Service Personnel

Before contacting Samsung after-sales service, perform the following simple checks.
If you cannot solve the problem using the instructions below, note the model and serial number of your set and contact your local dealer.

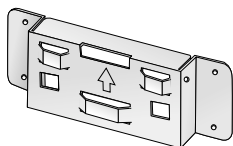
No sound or picture	<ul style="list-style-type: none"> ◆ Check that the mains lead has been connected to a wall socket. ◆ Check that you have pressed the POWER  button on the front of the panel. ◆ Check the picture contrast and brightness settings. ◆ Check the volume.
Normal picture but no sound	<ul style="list-style-type: none"> ◆ Check the volume. ◆ Check whether the MUTE  button has been pressed on the remote control. ◆ Check if Internal Mute is off
No picture or black and white picture	<ul style="list-style-type: none"> ◆ Adjust the colour settings. ◆ Check that the broadcast system selected is correct.
Sound and picture interference	<ul style="list-style-type: none"> ◆ Try to identify the electrical appliance that is affecting the set and move it further away. ◆ Plug your set into a different mains socket.
Blurred or snowy picture, distorted sound	<ul style="list-style-type: none"> ◆ Check the direction, location and connections of your aerial. This interference is often due to the use of an indoor aerial.
Remote control malfunctions	<ul style="list-style-type: none"> ◆ Replace the remote control batteries. ◆ Clean the upper edge of the remote control (transmission window). ◆ Check the battery terminals.
"Check signal cable." message is displayed.	<ul style="list-style-type: none"> ◆ Check that the signal cable is firmly connected to the PC or video sources. ◆ Check that the PC or video sources are turned on.
On PC mode, "Not Supported Mode." message is displayed.	<ul style="list-style-type: none"> ◆ Check the maximum resolution and the frequency of the video adapter. ◆ Compare these values with the data in the Display Modes.
The image is too light or too dark.	<ul style="list-style-type: none"> ◆ Adjust the Brightness and Contrast.
On PC mode, horizontal bars appear to flicker, jitter or shimmer on the image.	<ul style="list-style-type: none"> ◆ Adjust the Fine function.
On PC mode, vertical bars appear to flicker, jitter or shimmer on the image.	<ul style="list-style-type: none"> ◆ Adjust the Coarse function and then adjust the Fine function.
On PC mode, screen is black and power indicator light blinks every 1 second.	<ul style="list-style-type: none"> ◆ The TV is using its power management system. ◆ Move the computer's mouse or press any key on the keyboard.
On PC mode, image is not stable and may appear to vibrate.	<ul style="list-style-type: none"> ◆ Check that the display resolution and frequency from your computer or video board is an available mode for your set. On your computer check: Control Panel, Display, Settings. ◆ If the setting is not correct, use your computer utility programme to change the display settings. <p>➤ Your set supports multiscan display functions within the following frequency domain:</p> <p>Horizontal frequency(kHz): 30~ 61 Vertical frequency(Hz): 60~75 Maximum refresh rate (at 60Hz): 1360 X 768</p>
On PC mode, image is not centered on the screen.	<ul style="list-style-type: none"> ◆ Adjust the horizontal and vertical position.

The TFT LCD panel uses a panel consisting of sub pixels (3,147,264) which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

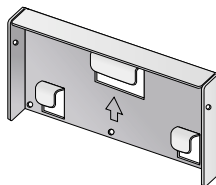
Installing the Wall Mount Kit (LE26R53BD)

➤ *This installation is to be used when attaching the wall mount to a concrete wall. When attaching to other building materials, please contact your nearest dealer.*

Components (Sold separately)



a Wall-Bracket



b Set-Bracket



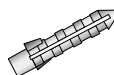
M4 X L12

c Screw: 8EA

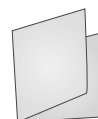


M4 X L20

d Wood Screw: 4EA



e Anchor: 4EA

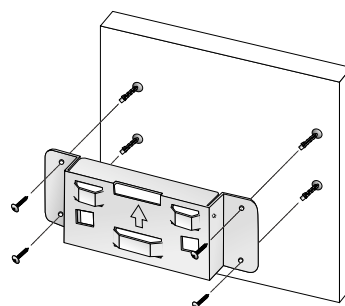


f Installation Guide

How to assemble the Wall Mount Bracket

- 1 ① Mark the location of hole on the wall.
- ② Drill a hole of 35mm depth on the marked location.
- ③ Fix anchors **e** on each hole on the wall.
- ④ Connect wall-bracket **a** to the wall with wood screws **d** after fitting anchors **e** into the wall-bracket **a**.

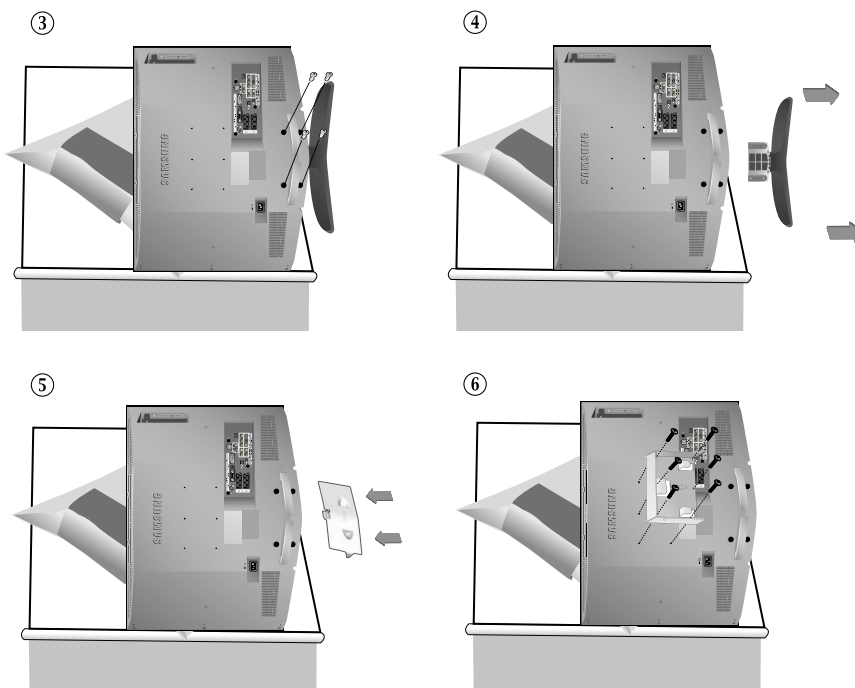
Note: If the bracket is not firmly fixed to the wall, LCD TV can fall off.



Installing the Wall Mount Kit (LE26R53BD)

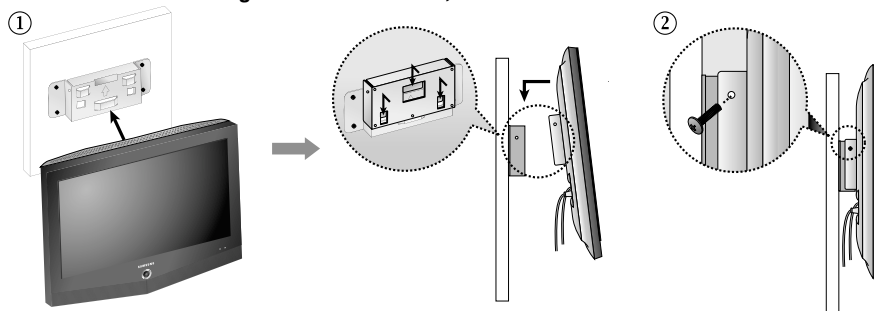
How to assemble the Wall Mount Bracket

- 2 ① Turn the power off and unplug the power cord from the outlet.
- ② Place the TV faced down on a soft cloth or cushion on a table.
- ③ Remove the four screws from the back of the TV.
- ④ Separate the stand from the TV.
- ⑤ Cover the bottom hole with a cap
- ⑥ Attach the set-bracket ① onto the rear side of the TV set and secure the screws ②.



- 3 ① Insert three Hangers of the set-bracket ① into the grooves of the wall-bracket ④.
- ② Fix set-bracket ① and wall-bracket ④ with screws ③.

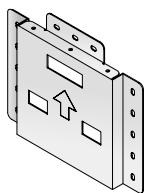
Note: Before installing the set on the wall, connect the cables to the set first.



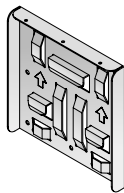
Installing the Wall Mount Kit (LE32R53BD)

➤ *This installation is to be used when attaching the wall mount to a concrete wall. When attaching to other building materials, please contact your nearest dealer.*

Components (Sold separately)



a Wall-Bracket



b Set-Bracket



M6 X L14

c Screw: 8EA



M4 X L25

d Wood Screw: 7EA

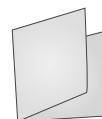


e Anchor: 7EA



M4 X L8

f Screw: 3EA

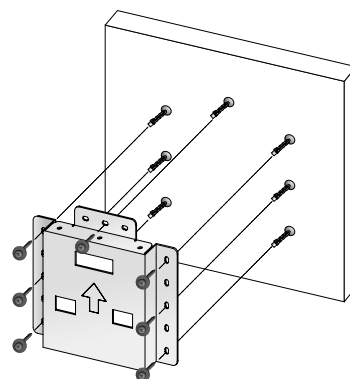


g Installation Guide

How to assemble the Wall Mount Bracket

- 1 ① Mark the location of hole on the wall.
- ② Drill a hole of 35mm depth on the marked location.
- ③ Fix anchors **e** on each hole on the wall.
- ④ Connect wall-bracket **a** to the wall with wood screws **d** after fitting anchors **e** into the wall-bracket **a**.

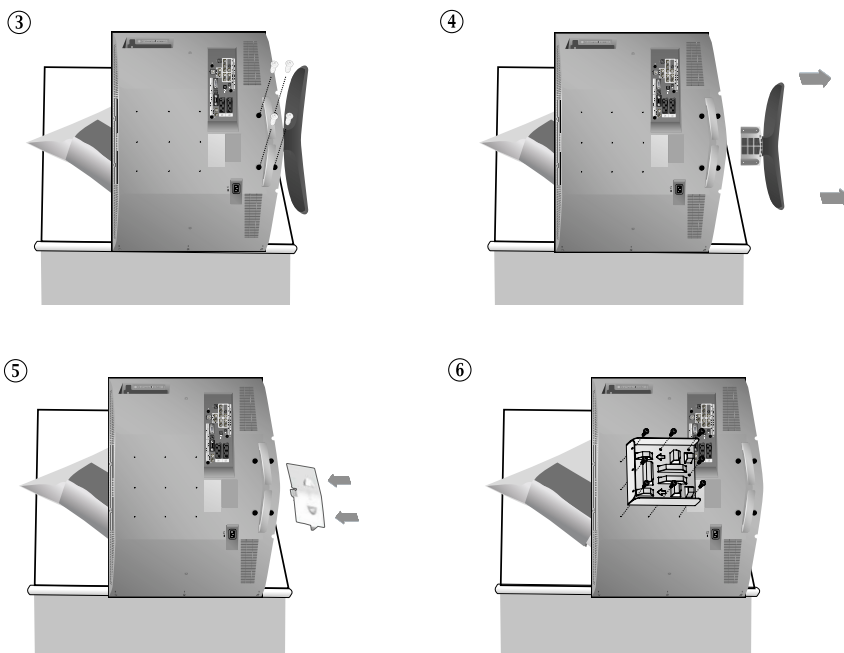
Note: If the bracket is not firmly fixed to the wall, LCD TV can fall off.



Installing the Wall Mount Kit (LE32R53BD)

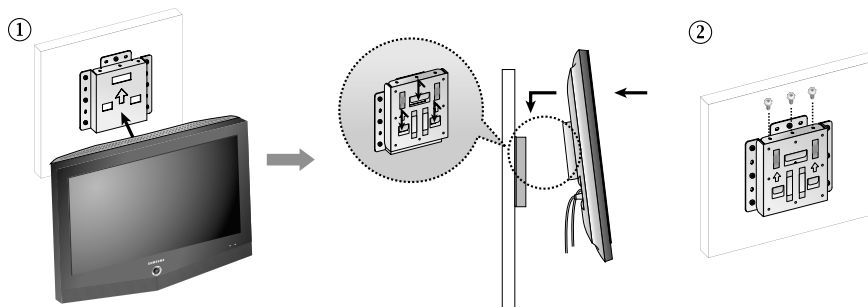
How to assemble the Wall Mount Bracket

- 2 ① Turn the power off and unplug the power cord from the outlet.
- ② Place the TV faced down on a soft cloth or cushion on a table.
- ③ Remove the four screws from the back of the TV.
- ④ Separate the stand from the TV.
- ⑤ Cover the bottom hole with a cap
- ⑥ Attach the set-bracket ① onto the rear side of the TV set and secure the screws ②.

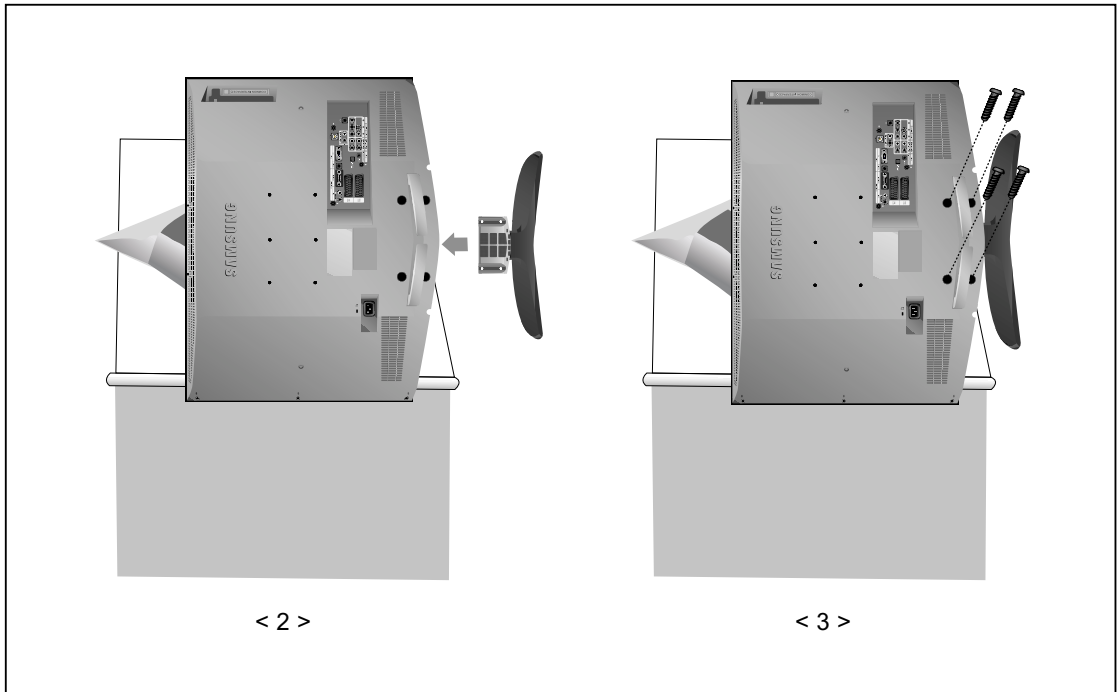


- 3 ① Insert three Hangers of the set-bracket ① into the grooves of the wall-bracket ②.
- ② Fix set-bracket ① and wall-bracket ② with screws ③.

Note: Before installing the set on the wall, connect the cables to the set first.



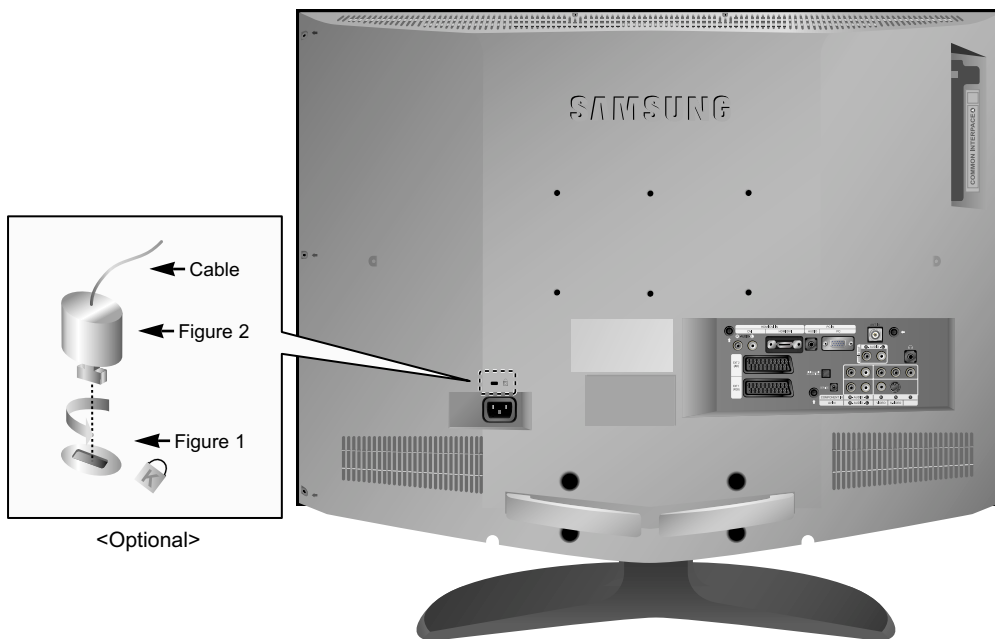
Installing the Stand



1. Place the TV faced down on a soft cloth or cushion on a table.
2. Attach the stand to the TV set as shown in the picture.
3. Use the four screws to tightly fix the stand.

Using the Anti-Theft Kensington Lock

The Kensington lock is a device used to physically fix the system when using it in a public place. The locking device has to be purchased separately. The appearance and locking method may differ from the illustration depending on the manufacturer. Please refer to the manual provided with the Kensington lock for proper use.



The place of the Kensington Lock may be different depending on its model.

1. Insert the locking device into the Kensington slot on the LCD TV (Figure 1), and turn it in the locking direction (Figure 2).
2. Connect the Kensington lock cable.
3. Fix the Kensington lock to a desk or a heavy stationary object.

Technical and Environmental Specifications

Model Name	LE26R53BD	LE32R53BD
Panel		
Size	26" Diagonal (16:9)	32" Diagonal (16:9)
Display Size	575.77 (H) x 323.71 (V) mm (22.67 (H) x 12.74 (V) inches)	697.68 (H) x 392.26 (V) mm (27.47 (H) x 15.44 (V) inches)
Type	a-si TFT active matrix	a-si TFT active matrix
Pixel Pitch	0.4215 (H) x 0.4215 (V) mm (0.0166 (H) x 0.0166 (V) inches)	0.511 (H) x 0.511 (V) mm (0.0201 (H) x 0.0201 (V) inches)
Viewing Angle	170 / 170 (H/V)	170 / 170 (H/V)
Resolution	1366 (H) x 768 (V)	1366 (H) x 768 (V)
Frequency		
Horizontal	30 ~ 61 kHz	30 ~ 61 kHz
Vertical	60 ~ 75 Hz	60 ~ 75 Hz
Display Colour	16,777,216 colours	16,777,216 colours
PC Resolution		
Maximum	1360 x 768 @ 60 Hz	1360 x 768 @ 60Hz
Optimum	1360 x 768 @ 60 Hz	1360 x 768 @ 60 Hz
Input Signal		
Sync.	H/V Separate, TTL, P. or N.	H/V Separate, TTL, P. or N.
Video Signal	0.7 Vp-p @ 75 ohm	0.7 Vp-p @ 75 ohm
TV		
Colour System	PAL, SECAM-B/G, D/K, I, I/I, L/L', NTPB (AV3.58, 4.43)	PAL, SECAM-B/G, D/K, I, I/I, L/L', NTPB (AV3.58, 4.43)
Sound System	BG, DK, I, L	BG, DK, I, L
DTV		
Signal Reception		
UHF Channel	Channel 21~68 (474~850 MHz)	Channel 21~68 (474~850 MHz)
Demodulation	Bandwidth 8MHz DVB-T	Bandwidth 8MHz DVB-T
DTV		
Video/ Audio Decoding		
Video Decoding	MPEG2 DVB Compliant (Main Profile @ Main Level)	MPEG2 DVB Compliant (Main Profile @ Main Level)
Bit rate	UP to 15Mb/s	UP to 15Mb/s
Resolution	720 x 576 pixels	720 x 576 pixels
Audio Decoding	MPEG-2 Layer I & II	MPEG-2 Layer I & II
Sound Mode	Mono/Stereo	Mono/Stereo
Video		
Colour System	PAL/NTSC/SECAM	PAL/NTSC/SECAM
Video System	CVBS, S-VHS, RGB	CVBS, S-VHS, RGB
SCART 1		
Video Input/Output	1.0 Vp-p @ 75 ohm	1.0 Vp-p @ 75 ohm
RGB Input	0.7 Vp-p @ 75 ohm	0.7 Vp-p @ 75 ohm
Audio Input/Output	500 mVrms	500 mVrms
SCART 2		
Video Input/Output	1.0 Vp-p @ 75 ohm	1.0 Vp-p @ 75 ohm
Audio Input/Output	500 mVrms	500 mVrms
Power Supply		
Input	AC 220 ~ 240 V, 60/50 Hz \pm 3 Hz	AC 220 ~ 240 V, 60/50 Hz \pm 3 Hz
Power Consumption		
Normal	140 W	170 W
Power Saving	<1 W	< 1 W
Dimension (W x D x H)		
Body	662.0 x 94.0 x 497.8 mm (26.06 x 3.70 x 19.598 inches)	797.0 x 99.0 x 592.0 mm (31.38 x 3.898 x 23.31 inches)
With stand	662.0 x 206.0 x 539.0 mm (26.06 x 8.11 x 21.22 inches)	797.0 x 249.0 x 650.7 mm (31.38 x 9.80 x 25.62 inches)

Technical and Environmental Specifications

Model	LE26R53BD	LE32R53BD
Weight With stand	11.3 kg (24.91 lbs)	17.7 kg (39.02 lbs)
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	10 °C to 40 °C (50 °F to 104 °F) 10 % to 80 %, non-condensing -20 °C to 45 °C (-4 °F to 113 °F) 5 % to 95 %, non-condensing	10 °C to 40 °C (50 °F to 104 °F) 10 % to 80 %, non-condensing -20 °C to 45 °C (-4 °F to 113 °F) 5 % to 95 %, non-condensing
Audio Characteristics Audio Input Audio Input (PC) Headphone Output Frequency Response	RCA Jack(L, R), 0.5 Vrms(-9 dB) 3.5 Ø Stereo Jack, 0.5 Vrms (-9 dB) Max. 10 mW Output (3.5 Ø Stereo Jack, 32 Ω) RF: 80 Hz ~ 15 kHz (at -3 dB) A/V: 80 Hz ~ 20 kHz (at -3 dB)	RCA Jack (L, R), 0.5 Vrms (-9 dB) 3.5 Ø Stereo Jack, 0.5 Vrms (-9 dB) Max. 10 mW Output (3.5 Ø Stereo Jack, 32 Ω) RF: 80 Hz ~ 15 kHz (at -3 dB) A/V: 80 Hz ~ 20 kHz (at -3 dB)
Sound Output 3D Surround Stereo	5 W X 2 SRS TrusurroundXT Nicam/A7	10 W X 2 SRS TrusurroundXT Nicam/A3

Display Mode (PC)

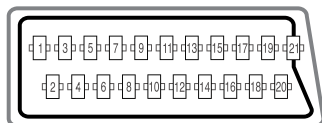
*Both screen position and size will vary depending on the type of PC monitor and its resolution.
The table below shows all of the display modes that are supported:*

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
IBM	640 x 480	31.469	59.940	25.175	- / -
	720 x 400	31.469	70.087	28.322	- / +
VESA	640 x 480	37.861	72.809	31.500	- / -
	640 x 480	37.500	75.000	31.500	- / -
	800 x 600	37.879	60.317	40.000	+ / +
	800 x 600	48.077	72.188	50.000	+ / +
	800 x 600	46.875	75.000	49.500	+ / +
	1024 x 768	48.364	60.000	65.000	- / -
	1024 x 768	56.476	70.069	75.000	- / -
	1024 x 768	60.023	75.029	78.750	+ / +
	1360 x 768	47.712	60.015	85.800	+ / +

- ◆ The interlace mode is not supported.
- ◆ The set might operate abnormally if a non-standard video format is selected.
- ◆ DVI dose not support PC function.

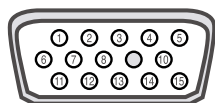
Pin Configurations

SCART Connector



Pin	Signal	Pin	Signal
1	Audio output R	12	-
2	Audio input R	13	Video chassis return (RGB red)
3	Audio output L	14	-
4	Audio chassis return	15	RGB red input
5	Video chassis return (RGB blue)	16	Blanking signal (RGB switching)
6	Audio input L	17	Video chassis return
7	RGB blue input	18	Blanking signal ground
8	Switching voltage	19	Video output
9	Video chassis return (RGB green)	20	Video input
10	AV-Link (Ext 1)	21	Screening/chassis return
11	RGB green input		

PC Input Connector (15Pin)

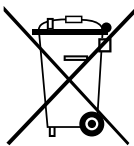


Pin	Signal	Pin	Signal
1	Red (R)	9	Reserved
2	Green (G)	10	Sync Grounding
3	Blue (B)	11	Grounding
4	Grounding	12	Data (DDC)
5	Grounding (DDC)	13	Horizontal sync.
6	Red (R) Grounding	14	Vertical sync.
7	Green (G) Grounding	15	Clock (DDC)
8	Blue (B) Grounding		

Memo

- AFTER SALES SERVICE

- Do not hesitate to contact your retailer or service agent if a change in the performance of your product indicates that a faulty condition may be present.



***Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)***

(Applicable in the European Union and other European countries with separate collection systems)



This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.